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9	Attorneys for Plaintiff
10	
11	UNITED STATES DISTRICT COURT
12	WESTERN DISTRICT OF WASHINGTON AT SEATTLE
13	
14	PUGET SOUNDKEEPER ALLIANCE,))
15	Plaintiff,) v. COMPLAINT
16	j j
17	UNION PACIFIC RAILROAD) COMPANY,)
18	Defendant.
19)
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21	I. INTRODUCTION
22	1. This action is a citizen suit brought under Section 505 of the Clean Water Act
23	("CWA") as amended, 33 U.S.C. § 1365. Plaintiff Puget Soundkeeper Alliance seeks a
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25	declaratory judgment, injunctive relief, the imposition of civil penalties, and the award of costs,
26	including attorneys' and expert witnesses' fees, for Defendant Union Pacific Railroad
27	Company's repeated and ongoing violations of Sections 301(a) and 402 of the CWA, 33 U.S.C.
28	§§ 1311(a) and 1342, and the terms and conditions of its National Pollutant Discharge
29	COMPLAINT - 1 SMITH & LOWNEY, P.L.L.C. 2317 EAST JOHN STREET SEATTLE, WASHINGTON 98112 (206) 860-2883

Elimination System ("NPDES") permit authorizing discharges of pollutants from Defendant's Seattle, Washington, facility to navigable waters.

II. JURISDICTION AND VENUE

- 2. The Court has subject matter jurisdiction under Section 505(a) of the CWA, 33 U.S.C. § 1365(a). The relief requested herein is authorized by 33 U.S.C. §§ 1319(d) and 1365(a).
- 3. Under Section 505 (b)(1)(A) of the CWA, 33 U.S.C. § 1365(b)(1)(A), Plaintiff notified Defendant of Defendant's violations of the CWA and of Plaintiff's intent to sue under the CWA by letter dated and postmarked July 24, 2020 and delivered July 27, 2020 ("Notice Letter"). A copy of the Notice Letter is attached to this complaint as Exhibit 1. The allegations in the Notice Letter are incorporated herein by this reference. Plaintiff notified Defendant's Registered Agent, the Administrator of the United States Environmental Protection Agency ("USEPA"), the Administrator of USEPA Region 10, and the Director of the Washington Department of Ecology ("WDOE") of its intent to sue Defendant by mailing copies of the Notice Letter to these officials on July 24, 2020.
- 4. More than sixty days have passed since the notice was served and the violations complained of in the Notice Letter are continuing or are reasonably likely to continue to occur. Defendant is in violation of its NPDES permit and the CWA. Neither the USEPA nor the WDOE has commenced any action constituting diligent prosecution to redress these violations.
- 5. The source of the violations complained of is located in King County, Washington, within the Western District of Washington, and venue is therefore appropriate in the Western District of Washington pursuant to Section 505(c)(1) of the CWA, 33 U.S.C. § 1365(c)(1).

III. PARTIES

- 6. Plaintiff Puget Soundkeeper Alliance ("Soundkeeper") is suing on behalf of itself and its member(s). Soundkeeper is a non-profit corporation organized under the laws of the State of Washington. Soundkeeper is a membership organization and has at least one member who is injured by Defendant's violations. Soundkeeper is dedicated to protecting and preserving Puget Sound including all waters flowing into Puget Sound and adjacent lands.
- 7. Plaintiff has representational standing to bring this action. Soundkeeper's members are reasonably concerned about the effects of discharges of pollutants, including stormwater from Defendant's facility, on aquatic species and wildlife that Plaintiff's members observe, study and enjoy. Soundkeeper's members are further concerned about the effect of discharges from Defendant's facility on human health. In addition, discharges from Defendant's facility lessen Soundkeeper's members' aesthetic enjoyment of nearby areas. Soundkeeper has members who live, work, fish and recreate around or use the Duwamish River, tributaries thereto, and waters to which the Duwamish River is tributary, Elliott Bay and Puget Sound. These members are affected by Defendant's discharges and permit violations. Soundkeeper's members' concerns about the effects of Defendant's discharges are aggravated by Defendant's failure to record and report information about its discharges and pollution controls. The recreational, economic, aesthetic and/or health interests of Soundkeeper and its member(s) have been, are being, and will be adversely affected by Defendant's violations of the CWA. The relief sought in this lawsuit can redress the injuries to these interests.
- 8. Plaintiff has organizational standing to bring this action. Soundkeeper has been actively engaged in a variety of educational and advocacy efforts to improve water quality and to address sources of water quality degradation in the waters of western Washington, including the

Duwamish River and Puget Sound. Defendant has failed to fulfill monitoring, recordkeeping, reporting and planning requirements, among others, necessary for compliance with its NPDES permit and the CWA. As a result, Plaintiff is deprived of information necessary to properly serve its members by providing information and taking appropriate action to advance its mission. Plaintiff's efforts to educate and advocate for greater environmental protection for the benefit of its members are also precluded. Finally, Plaintiff and the public are deprived of information that influences members of the public to become members of Soundkeeper, thereby reducing Soundkeeper's membership numbers. Thus, Plaintiff's organizational interests have been adversely affected by Defendant's violations. These injuries are fairly traceable to Defendant's violations and redressable by the Court.

- 9. Defendant is a corporation authorized to conduct business under the laws of the State of Washington.
- 10. Defendant owns and operates a facility used for railcar storage, switching, maintenance, equipment and material storage and related activities, located at or about 402 S. Dawson St., Seattle, WA, including contiguous or adjacent properties owned or operated by Defendant (the "facility").

IV. LEGAL BACKGROUND

- 11. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of pollutants by any person, unless in compliance with the provisions of the CWA. Section 301(a) prohibits, <u>inter alia</u>, such discharges not authorized by, or in violation of, the terms of a NPDES permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.
- 12. The State of Washington has established a federally approved state NPDES program administered by the WDOE. Wash. Rev. Code § 90.48.260; Wash. Admin. Code ch.

173-220. This program was approved by the Administrator of the USEPA pursuant to 33 U.S.C.

§ 1342(b).

13. Pursuant to Section 402(a) of the CWA, 33 U.S.C. § 1342(a), the WDOE has

- repeatedly issued the Industrial Stormwater General Permit, most recently on November 20, 2019, (the "General Permit"). The General Permit, in its various iterations since its first issuance in 1993 containing comparable requirements, authorizes those that obtain coverage under the General Permit to discharge stormwater, a pollutant under the CWA, and other pollutants contained in the stormwater to the waters of the State subject to certain terms and conditions.
- thereby, including monitoring and sampling of discharges, reporting and recordkeeping requirements. To reduce and eliminate pollutant concentrations in stormwater discharges, the General Permit requires, among other things, that Permittees develop and implement best management practices ("BMPs") and a Stormwater Pollution Prevention Plan ("SWPPP"), and apply all known and reasonable methods of prevention, control and treatment ("AKART") to discharges. When a Permittee's stormwater discharge exceeds benchmark values for concentrations of certain pollutants (and action levels for concentrations of certain pollutants in a previous version of the General Permit), the General Permit requires the Permittee to complete the applicable Level 1, 2, or 3 corrective action requirements. The specific terms and conditions of the General Permit are described in detail in the Notice Letter, attached hereto as Exhibit 1, and incorporated herein by this reference.

V. FACTS

15. Pursuant to Condition S2 of the General Permit, Defendant filed with the WDOE an Application for General Permit to Discharge Stormwater Associated with Industrial Activity.

WDOE granted Defendant coverage under the General Permit for Defendant's facility under Permit Number WAR001155. WDOE previously granted Defendant coverage under an earlier version of the General Permit for Defendant's facility under Permit Number SO3001155.

- 16. Defendant's facility is engaged in industrial activity and discharges stormwater and other pollutants to the Duwamish River via drains, pipes, ditches, runoff, municipal storm sewer system and the ground.
- 17. Discharges from Defendant's facility contribute to the polluted conditions of the waters of the State, including to the sediment and water quality impairment of the Duwamish River. Discharges from Defendant's facility contribute to the ecological impacts that result from the polluted state of these waters and to Plaintiff's and their members' injuries resulting therefrom. The requirement not to cause or contribute to violations of water quality standards, General Permit Condition S10.A, and Defendant's violations thereof are described in section I of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference. Defendant has caused or contributed to violations of water quality standards for turbidity, copper, zinc, oil, designated uses and aesthetics in the Duwamish River, including every day Defendant discharged pollutant concentrations in excess of the General Permit benchmarks or maximum daily limits.
- 18. The vicinity of the facility, the Duwamish River and Elliott Bay are used by the citizens of Washington and visitors, as well as at least one of Plaintiff's members, for recreational activities, including boating, biking, fishing and nature watching. Plaintiff's member(s) also derive(s) aesthetic, spiritual and cultural benefits from the receiving waters. Plaintiff's and its members' enjoyment of these activities and waters is diminished by the polluted state of the receiving waters and by Defendant's contributions to such polluted state.

- 19. Defendant has violated the General Permit and Sections 301(a) and 402 of the CWA, 33 U.S.C. §§ 1311(a) and 1342, by discharging pollutants in violation of an NPDES Permit. Defendant's violations of the General Permit and the CWA are set forth in full in sections I through VIII of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference. In particular and among the other violations described in the Notice Letter, Defendant has failed to collect representative discharge samples, failed to prepare and implement a compliant SWPPP, failed to comply with corrective action requirements, violated daily effluent limits, and failed to implement best management practices to control stormwater quality as required by the General Permit.
- 20. Defendant has discharged stormwater containing levels of pollutants that exceed the benchmark values and numeric effluent limits established in the General Permit, as specified in Tables 1 and 2 below. Defendant's stormwater discharges are causing or contributing to violations of water quality standards and therefore violate the General Permit, Condition S10.A. Additionally, Defendant's exceedances of the benchmark values and effluent limits demonstrate that Defendant is failing to apply AKART to its discharges and/or is failing to implement an adequate SWPPP and BMPs. These requirements and violations are described in detail in section I of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.
- 21. Defendant has sampled its stormwater discharges in the calendar quarters identified in Table 1 of this Complaint and determined that such discharges contained pollution in amounts exceeding benchmarks, as shown in Table 1.

Table 1 – Facility Benchmark Exceedances

Quarter in	Turbidity	Oil/Grease	Copper	Zinc
which sample	(Benchmark	(Benchmark	(Benchmark 14	(Benchmark 117
collected	25 NTU)	no sheen)	μg/L)	μg/L)
(sample location			, ,	, ,
no.)				
2Q 2019 (001)	28.3 NTU			
2Q 2019 (002)	37.2			
2Q 2019 (004)	166		36.4 μg/L	$355 \mu g/L$
2Q 2019 (005)	100	Yes	22	263
2Q 2019 (006)	103		22.6	268
3Q 2019 (004)			14.95	
1Q 2020 (004)	30			

- 22. The stormwater samples identified in Table 1 are representative of and accurately characterize the quality of stormwater discharges generated by the facility during the associated calendar quarter.
- 23. Defendant discharges to the Duwamish River, which is 303(d) listed for sediment quality and Defendant has violated the General Permit's corresponding numeric effluent limit for Total Suspended Solids (TSS), Condition S6.C, Table 6. Defendant has sampled its stormwater discharges on the dates identified in Table 2 of this Complaint and determined that such discharges contain pollution in amounts exceeding maximum daily effluent limits for TSS, as shown in Table 2. These General Permit violations are reasonably likely to recur.

Table 2 – Facility Numeric Effluent Limit Violations

Quarter in which sample collected	Total Suspended Solids (TSS) concentration
(outfall number)	(limitation: 30 mg/L)
2Q 2019 (004)	95 mg/L
2Q 2019 (005)	49 mg/L
2Q 2019 (006)	55 mg/L

24. Defendant has not developed and/or implemented a SWPPP in accordance with the requirements of the General Permit, Condition S3. Defendant's SWPPP does not specify all

of the BMPs that are necessary to provide AKART and to ensure that discharges do not cause or contribute to violations of water quality standards, and does not include all of the specific requirements of the General Permit, including certain mandatory BMPs, a compliant facility assessment, a compliant inventory of industrial activities and materials, a compliant site map, compliant maintenance BMPs and a compliant sampling plan, among other deficiencies. These SWPPP requirements and violations are described in detail in section II of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

- 25. Defendant has violated the monitoring requirements in the General Permit,

 Conditions S4 and S9.B and E. Defendant has failed to collect representative stormwater

 samples and/or submit discharge monitoring reports for all distinct discharge points during all

 quarters as required by the General Permit.
- 26. Defendant failed to collect stormwater samples and/or to submit DMRs for Outfalls 002, 003, 004, 005, and 006 at all between 4th Quarter 2015 and 2nd Quarter 2019. These monitoring requirements and violations are described in section III.A of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.
- 27. Defendant failed to collect stormwater samples and/or to submit DMRs for the following discharge points at all in the last five years: points of discharge from two separate and distinct chassis storage areas, discharges from area MSH-5, discharges from area VM-1, discharges from area VM-8, discharges from area DTL-1, points of discharge from a drainage area south of System B, points of discharge from access roads throughout the facility that do not drain to any of the currently identified sample points, points of discharge from the Packer Staging Area that do not flow to System B, points of discharge from the railyard at the northeast of the facility including discharges that flow to Systems X1 or X2, and other discrete points of

runoff along the perimeter of the facility. These monitoring requirements and violations are described in section III.A of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

- 28. Defendant has not reported all sampling results on Defendant's quarterly DMR as required by the General Permit, Condition S9.E.
- 29. Defendant has not conducted and/or documented inspections as required by the General Permit, Condition S7. These inspection requirements and violations are described in detail in section III.B of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.
- 30. Defendant has not implemented maintenance of facility stormwater systems as required by the General Permit, Conditions S3.B.4.b.i.2-3 and S7.B.6, including maintenance of System Z.
- 31. Defendant has not conducted and/or completed the corrective action responses as required by the General Permit. Condition S8.B of the General Permit requires a permittee to undertake a Level 1 corrective action whenever it exceeds a benchmark value identified in Condition S5. A Level 1 corrective action comprises an inspection to investigate the cause of the benchmark exceedance within 14 days of receipt of the corresponding sample results, review of the SWPPP to ensure permit compliance, revisions to the SWPPP to include additional operational source control BMPs with the goal of achieving the applicable benchmark values in future discharges, including signature and certification of the revised SWPPP, summary of the Level 1 corrective action in the annual report, and full implementation of the revised, signed and certified SWPPP as soon as possible, but no later than the DMR due date for the quarter the benchmark was exceeded. Defendant was required to complete a Level 1 corrective action for

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COMPLAINT - 11

every benchmark exceedance identified in Table 1 above. Defendant has not completed all of these corrective actions as required. These corrective action requirements and violations are described in section IV.A of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

- 32. Condition S8.C. of the General Permit requires a permittee to undertake a Level 2 corrective action whenever it exceeds a benchmark value for any two quarters during a calendar year. A Level 2 corrective action comprises review of the SWPPP to ensure permit compliance, revision of the SWPPP to include additional structural source control BMPs with the goal of achieving the benchmark in future discharges, including signature and certification of the revised SWPPP in accordance with Condition S3.A.5, summary of the Level 2 corrective action (planned or taken) in the annual report, and full implementation of the revised SWPPP by August 31st of the following year, including installation of necessary structural source control BMPs. Defendant triggered Level 2 corrective action requirements for copper in 2019. Defendant has not completed all of the corrective actions as required. These corrective action requirements and violations are described in section IV.B of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.
- 33. Defendant has violated the recordkeeping requirements of the General Permit. The recordkeeping requirements are outlined in Conditions S4.B.4-5 and S9.D of the General Permit. General Permit Condition S4.B.4 requires recording and retention of specified information for each stormwater sample taken. General Permit Condition S9.D requires the retention of the records identified for a minimum of five (5) years. Defendant is in violation of

¹ These requirements were outlined in the prior iteration of the General Permit, effective January 2, 2015 and expired December 31, 2019 (the "2015 Permit"), at Conditions S4.B.3-4 and S9.C. SMITH & LOWNEY, P.L.L.C.

these conditions by failing to record and retain the sampling documentation of Condition S4.B.4, the inspection documentation of Condition S7, equipment calibration records, all BMP maintenance records, all original recordings for continuous sampling instrumentation, copies of all laboratory reports as described in S3.B.5, all DMRs, or copies of any other reports required by the Permit for the specified five-year period.

- 34. Defendant has violated the reporting requirements of the General Permit,

 Condition S9.C and F.¹ For example, Defendant submitted annual reports that did not include all
 the required elements and did not report General Permit violations as required. These reporting
 requirements and violations are described in section VIII of the Notice Letter, attached hereto as
 Exhibit 1, and are incorporated herein by this reference.
- 35. A significant penalty should be imposed against Defendant pursuant to the penalty factors set forth in 33 U.S.C. § 1319(d).
- 36. Defendant's violations of the CWA degrade the environment and the water quality of the receiving water bodies.
- 37. Defendant's violations were avoidable had Defendant been diligent in overseeing facility operations and maintenance.
- 38. Defendant has benefited economically as a consequence of its violations and its failure to implement improvements at the facility.
- 39. Defendant is the principal operating company of Union Pacific Corporation, an extremely profitable publicly traded business enterprise with over \$20 billion of operating revenue in 2019, over \$60 billion in assets and billions of dollars of annual profit. Given its size

¹ 2015 Permit Conditions S9.B and E. COMPLAINT - 12

and resources, Defendant can afford to pay a significant penalty. Indeed, such penalty is required to meet the deterrence goals of the Clean Water Act's penalty factors.

VI. CAUSE OF ACTION

- 40. The preceding paragraphs and the allegations in sections I through VIII of the Notice Letter are incorporated herein.
- 41. Defendant's violations of its NPDES permit described herein and in the Notice Letter constitute violations of "effluent standard(s) or limitation(s)" as defined by section 505, 33 U.S.C. § 1365.
- 42. The violations committed by Defendant are ongoing or are reasonably likely to continue to occur. Any and all additional violations of the General Permit and the CWA which occur after those described in Plaintiff's Notice Letter but before a final decision in this action should be considered continuing violations subject to this Complaint.
- 43. Without the imposition of appropriate civil penalties and the issuance of an injunction, Defendant is likely to continue to violate the General Permit and the CWA to the further injury of the Plaintiff, its member(s) and others.
- 44. A copy of this Complaint was served upon the Attorney General of the United States and the Administrator of the USEPA as required by 33 U.S.C. § 1365(c)(3).

VII. RELIEF REQUESTED

Wherefore, Plaintiff respectfully requests that this Court grant the following relief:

A. Issue a declaratory judgment that Defendant has violated and continues to be in violation of the General Permit and Sections 301 and 402 of the Clean Water Act, 33 U.S.C. §§ 1311 and 1342;

- B. Enjoin Defendant from operating its facility in a manner that results in further violations of the General Permit or the Clean Water Act;
- C. Order Defendant to immediately implement a Storm Water Pollution Prevention

 Plan that is in compliance with the General Permit, and to provide Plaintiff with a copy of this

 Plan;
- D. Order Defendant to allow Plaintiff to participate in the development and implementation of Defendant's Storm Water Pollution Prevention Plan;
- E. Order Defendant to provide Plaintiff, for a period beginning on the date of the Court's Order and running for one year after Defendant achieves compliance with all of the conditions of the General Permit, with copies of all reports and other documents which Defendant submits to the USEPA or to the WDOE regarding Defendant's coverage under the General Permit at the time it is submitted to these authorities;
- F. Order Defendant to take specific actions to remediate the environmental harm caused by its violations;
- G. Order Defendant to pay civil penalties of \$55,800.00 per day of violation for each violation committed by Defendant since November 2, 2015 and \$37,500.00 per day of violation for each violation committed by Defendant before November 2, 2015 pursuant to Sections 309(d) and 505(a) of the CWA, 33 U.S.C. §§ 1319(d) and 1365(a), and 40 C.F.R. § 19;
- H. Award Plaintiff their litigation expenses, including reasonable attorneys' and expert witness fees, as authorized by Section 505(d) of the CWA, 33 U.S.C. § 1365(d); and
 - I. Award such other relief as this Court deems appropriate.

1	RESPECTFULLY SUBMITTED this 7th day of October, 2020.
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3	SMITH & LOWNEY, PLLC
4	By: s/Knoll Lowney
5	Knoll Lowney, WSBA #23457 By: <u>s/Marc Zemel</u>
6	Marc Zemel, WSBA #44325
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12	
13	PUGET SOUNDKEEPER ALLIANCE
14	By: <u>s/Katelyn Kinn</u>
15	Katelyn Kinn, WSBA # 42686 130 Nickerson Street, Suite 107
16	Seattle, WA 98109
17	Tel: (206) 297-7002 Fax: (206) 297-0409
18	E-mail: katelyn@pugetsoundkeeper.org
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EXHIBIT 1

SMITH & LOWNEY, P.L.L.C.

2317 EAST JOHN STREET SEATTLE, WASHINGTON 98112 (206) 860-2883, FAX (206) 860-4187

July 24, 2020

Via Certified Mail - Return Receipt Requested

Managing Agent Union Pacific Railroad Company Argo Yard 402 South Dawson Street Seattle, WA 98108

Managing Agent Union Pacific Railroad Company 1400 Douglas Street Omaha, NE 68179-1001

Managing Agent Union Pacific Railroad Company 301 NE 2nd Ave Portland, OR 97232-2764

Re: NOTICE OF INTENT TO SUE UNDER THE CLEAN WATER ACT AND REQUEST FOR COPY OF STORMWATER POLLUTION PREVENTION PLAN

Dear Managing Agent:

We represent Puget Soundkeeper Alliance ("Soundkeeper"), 130 Nickerson St. #107, Seattle, WA 98109, (206) 297-7002. Any response or correspondence related to this matter should be directed to us at the letterhead address. This letter is to provide you with sixty days' notice of Soundkeeper's intent to file a citizen suit against Union Pacific Railroad Company ("Union Pacific") under section 505 of the Clean Water Act ("CWA"), 33 U.S.C. § 1365, for the violations described below. This letter is also a request for a copy of the complete and current stormwater pollution prevention plan ("SWPPP") required by Union Pacific's National Pollution Discharge Elimination System ("NPDES") permit.

Union Pacific was granted coverage under Washington's Industrial Stormwater General Permit ("ISGP") issued by the Washington Department of Ecology ("Ecology") effective January 2, 2015 and expired on December 31, 2019 under NPDES No. WAR001155 (the "2015 Permit"). Ecology granted Union Pacific coverage under the current iteration of the ISGP effective January 1, 2020, and set to expire on December 31, 2024 (the "2020 Permit") and maintains the same permit number, WAR001155.

As detailed below, Union Pacific has violated and continues to violate the CWA (see Sections 301 and 402 of the CWA, 33 U.S.C. §§ 1311 and 1342) and the terms and conditions of the 2015 Permit and the 2020 Permit (collectively, the "Permits") with respect to operations of, and discharges of stormwater and pollutants from, its facility located at or about 402 S. Dawson Street, Seattle, WA 98108 (the "facility" or "Argo Yard") to the Duwamish River. Condition S1.A of the Permits requires that all discharges and activities authorized be consistent with the terms and conditions of the permits. Union Pacific has violated these conditions by discharging and acting inconsistent with the conditions of the Permits as described in this notice of intent to sue. The facility subject to this notice includes any contiguous or adjacent properties owned or operated by Union Pacific.

I. COMPLIANCE WITH STANDARDS.

A. Violations of Water Quality Standards.

Condition S10.A of the Permits prohibits discharges that cause or contribute to violations of water quality standards. Water quality standards are the foundation of the CWA and Washington's efforts to protect clean water. In particular, water quality standards represent the U.S. Environmental Protection Agency ("EPA") and Ecology's determination, based on scientific studies, of the thresholds at which pollution starts to cause significant adverse effects on fish or other beneficial uses. For each water body in Washington, Ecology designates the "beneficial uses" that must be protected through the adoption of water quality standards.

A discharger must comply with both narrative and numeric criteria water quality standards. WAC 173-201A-010; WAC 173-201A-510 ("No waste discharge permit can be issued that causes or contributes to a violation of water quality criteria, except as provided for in this chapter."). Narrative water quality standards provide legal mandates that supplement the numeric criteria. Furthermore, a narrative water quality standard applies with equal force even if Ecology has established a numeric water quality standard. Condition S10.A of the Permits specifically requires that Union Pacific's discharges not cause or contribute to an excursion of Washington State water quality standards.

Union Pacific discharges via a municipal stormwater system to a segment of the Duwamish River that does not meet water quality standards for sediment quality and is included on the state's "303(d) list" of impaired water bodies. Union Pacific discharges stormwater that contains elevated levels of turbidity, total suspended solids, oil & grease, copper and zinc, as indicated in Tables 1 and 2 below. Moreover, the discharges Union Pacific has sampled and reported underrepresent the polluted condition of its facility discharges, as explained further at sections III.A and V of this Notice Letter. These discharges cause and/or contribute to violations of water quality standards for turbidity, dissolved oxygen, zinc, copper, designated uses and aesthetics in the Duwamish and precipitation, and continue to occur. See WAC 173-201A-200, 173-201A-240, 173-201A-260, 173-201A-600 and 602. Precipitation data from that time period is appended to this notice of intent to sue and identifies these days.

Ouarter in which **Turbidity** Oil/Grease Copper Zinc sample collected (Benchmark 25 (Benchmark no (Benchmark 117 µg/L) (Benchmark 14 µg/L) (sample location NTU) sheen) no.) 2Q 2019 (001) 28.3 NTU 2Q 2019 (002) 37.2 2Q 2019 (004) 166 $36.4 \mu g/L$ $355 \mu g/L$ 2Q 2019 (005) 100 Yes 22 263 2Q 2019 (006) 103 22.6 268 3Q 2019 (004) 14.95 1Q 2020 (004) **30**

Table 1: Benchmark Exceedances

II. STORMWATER POLLUTION PREVENTION PLAN AND BEST MANAGEMENT PRACTICES VIOLATIONS.

Condition S10.C of the Permits requires Union Pacific to apply all known and reasonable methods of prevention, control and treatment ("AKART") to all discharges, including preparation and implementation of an adequate SWPPP and best management practices ("BMPs"). Union Pacific has violated and continues to violate these conditions by failing to apply AKART to its discharges or to implement an adequate SWPPP and BMPs as evidenced by the elevated levels of pollutants in its discharge indicated in Table 1 above and Table 2 below, and as described below in this notice of intent to sue.

Union Pacific is in violation of the Permits' SWPPP provisions as follows:

- 1. Condition S3.A of the Permits requires Union Pacific to develop and implement a SWPPP as specified. Condition S3.A.2 of the 2015 Permit and S3.A.1 of the 2020 Permit require the SWPPP to specify BMPs necessary to provide AKART and ensure that discharges do not cause or contribute to violations of water quality standards. Union Pacific has violated these requirements of the Permits each and every day during the last five years and continues to violate them as it has failed to prepare and/or implement a SWPPP that includes AKART BMPs and BMPs necessary to comply with state water quality standards for all its discharges.
- 2. Condition S3.A of the Permits requires Union Pacific to have and implement a SWPPP that is consistent with permit requirements, fully implemented as directed by permit conditions, and updated as necessary to maintain compliance with permit conditions. Union Pacific has violated these requirements of the Permits each and every day during the last five years and continues to violate them because its SWPPP is not consistent with permit requirements, has not been fully implemented and has not been updated as necessary.
- 3. The SWPPP fails to satisfy the requirements of Condition S3 of the Permits because it does not adequately describe BMPs. Condition S3.B.4 of the Permits require that the SWPPP include a description of the BMPs that are necessary for the facility to eliminate or reduce the potential to contaminate stormwater. Condition S3.A.3 of the 2015 Permit and

S3.A.2 of the 2020 Permit require that the SWPPP include BMPs consistent with approved stormwater technical manuals or document how stormwater BMPs included in the SWPPP are demonstratively equivalent to the practices contained in the approved stormwater technical manuals, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs. See Stormwater Management Manual for Western Washington, July 2019,

https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMWW/Content/Resources/DocsForDownload/2019SWMMWW.pdf. Union Pacific's SWPPP does not comply with these requirements because it does not adequately describe BMPs and does not include BMPs consistent with approved stormwater technical manuals nor does it include BMPs that are demonstratively equivalent to such BMPs with documentation of BMP adequacy across the entire facility.

- 4. Union Pacific's SWPPP fails to satisfy the requirements of Condition S3.B.2 of the Permits because it fails to include a facility assessment as mandated. The SWPPP fails to include an adequate facility assessment because it does not describe the industrial activities conducted at all locations in the site, the general layout of the entire facility including buildings and storage of raw materials or equipment, the flow of goods and materials through the whole facility, regular business hours and seasonal variations in business hours or in industrial activities as required.
- 5. Union Pacific's SWPPP fails to satisfy the requirements of Condition S3.B.1 of the Permits because it does not include a site map that identifies significant features, the stormwater drainage and discharge structures, the stormwater drainage areas for each stormwater discharge point off-site (including discharges to groundwater), direction of stormwater flow with arrows, a unique identifying number for each discharge point (indicating any that are identified as substantially identical), each sampling location with a unique identifying number, any other party other than Union Pacific that owns any stormwater drainage or discharge structures, locations of all structural source control BMPs, impervious areas and buildings, areas of pollutant contact associated with specific industrial activities, conditionally approved non-stormwater discharges, surface water locations, locations of all stormwater conveyances, areas of existing and potential soil erosion, all vehicle maintenance areas, and lands and waters adjacent to the site that may be helpful in identifying discharge points or drainage routes.
- 6. Union Pacific's SWPPP fails to comply with Condition S3.B.2.b of the Permits because it does not include an inventory of industrial activities that identifies all areas associated with industrial activities that have been or may potentially be sources of pollutants as required. The SWPPP does not identify all areas associated with loading and unloading of dry bulk materials or liquids, outdoor storage of materials or products, outdoor manufacturing and processing, onsite dust or particulate generating processes, on-site waste treatment, storage, or disposal, all access roads, vehicle and equipment fueling, maintenance, and/or cleaning, roofs or other surfaces exposed to air emissions from a manufacturing building or a process area, and roofs or other surfaces composed of materials that may be mobilized by stormwater as required by these conditions.

- 7. Union Pacific's SWPPP does not comply with Condition S3.B.2.c of the Permits because it does not include an adequate inventory of materials. The SWPPP does not include an inventory of materials that lists the types of materials handled at each area of the site that potentially may be exposed to precipitation or runoff and that could result in stormwater pollution, a short narrative for material describing the potential for the pollutants to be present in stormwater discharge that is updated when data becomes available to verify the presence or absence of the pollutants, a narrative description of any potential sources of pollutants from past activities, materials and spills that were previously handled, treated, stored, or disposed of in a manner to allow ongoing exposure to stormwater as required. The SWPPP does not include the method and location of on-site storage or disposal of such materials and a list of significant spills and significant leaks of toxic or hazardous pollutants as these permit conditions require.
- 8. Union Pacific's SWPPP does not comply with Condition S3.B.3 of the Permits because it does not identify specific individuals by name or title whose responsibilities include SWPPP development, implementation, maintenance and modification.
- 9. Condition S3.B.4 of the Permits require that permittees include in their SWPPPs and implement certain mandatory BMPs unless site conditions render the BMP unnecessary, infeasible, or an alternative and equally effective BMP is provided. Union Pacific is in violation of this requirement because it has failed to include in its SWPPP and implement the mandatory BMPs of the Permits.
- 10. Union Pacific's SWPPP does not comply with Condition S3.B.4.b.i of the Permits because it does not include required operational source control BMPs for every area of the facility in the following categories: good housekeeping (including definition of ongoing maintenance and cleanup of areas that may contribute pollutants to stormwater discharges, and a schedule/frequency for each housekeeping task); preventive maintenance (including BMPs to inspect and maintain stormwater drainage, source controls, treatment systems, and plant equipment and systems, and the schedule/frequency for each task); spill prevention and emergency cleanup plan (including BMPs to prevent spills that can contaminate stormwater, for material handling procedures, storage requirements, cleanup equipment and procedures, and spill logs); employee training (including an overview of what is in the SWPPP, how employees make a difference in complying with the SWPPP, spill response procedures, good housekeeping, maintenance requirements, and material management practices, how training will be conducted, the frequency/schedule of training, and a log of the dates on which specific employees received training); inspections and recordkeeping (including documentation of procedures to ensure compliance with permit requirements for inspections and recordkeeping, identification of personnel who conduct inspections, provision of a tracking or follow-up procedure to ensure that a report is prepared and appropriate action taken in response to visual monitoring, definition of how Union Pacific will comply with signature and record retention requirements, and certification of compliance with the SWPPP and Permit).
- 11. Union Pacific's SWPPP does not comply with Condition S3.B.4.b.i.7 of the Permits because it does not include measures to identify and eliminate the discharge of process wastewater, domestic wastewater, noncontact cooling water, and other illicit

discharges to stormwater sewers, or to surface waters and ground waters of the state from each portion of the facility.

- 12. Union Pacific's SWPPP does not comply with Condition S3.B.4.b.ii of the Permits because it does not include required structural source control BMPs to minimize the exposure of manufacturing, processing, and material storage areas to rain, snow, snowmelt, and runoff. Union Pacific's SWPPP does not comply with Condition S3.B.4.b.iii of the Permits because it does not include treatment BMPs as required.
- 13. Union Pacific's SWPPP fails to comply with Condition S3.B.4.b.v of the Permits because it does not include BMPs to prevent the erosion of soils or other earthen materials and prevent off-site sedimentation and violations of water quality standards.
- 14. Union Pacific's SWPPP fails to satisfy the requirements of Condition S3.B.5 of the Permits because it fails to include a stormwater sampling plan as required. The SWPPP does not include a sampling plan that: identifies all points of discharge to surface waters, storm sewers, or discrete ground water infiltration locations; documents why each discharge point is not sampled with discussion of each of the documentation required; identifies each sampling point by its unique identifying number; identifies staff responsible for conducting stormwater sampling; specifies procedures for sampling collection and handling; specifies procedures for sending samples to the a laboratory; identifies parameters for analysis, holding times and preservatives, laboratory quantization levels, and analytical methods, and that specifies the procedure for submitting the results to Ecology.

III. MONITORING AND REPORTING VIOLATIONS.

A. Failure to Collect Quarterly Samples.

Condition S4.B of the Permits requires Union Pacific to collect representative samples of its stormwater discharge once during every calendar quarter. Conditions S3.B.2.c of the 2015 Permit and S4.B.3.a of the 2020 Permit require Union Pacific to collect stormwater samples at each distinct point of discharge offsite except for substantially identical outfalls, in which case only one of the substantially identical outfalls must be sampled. These conditions set forth sample collection criteria and require the collection of a sample even if the criteria cannot be met. The facility has dozens of distinct points of discharge off-site, including but not limited to Outfalls SW-001 through 006, points of discharge from two separate chassis storage areas, discharges from areas MSH-5, VM-1, VM-8, and DTL-1, points of discharge from an area south of System B, points of discharge from access roads throughout the facility that do not drain to any of the currently identified sample points, points of discharge from the Packer Staging Area that do not flow to System B, various points of discharge from the railyard at the northeast of the facility including discharges that flow to Systems X1 or X2, and various other discrete points of runoff along the perimeter of the facility.

Union Pacific has violated and continues to violate these conditions because it does not sample each distinct point of discharge off-site. These failures underrepresent the polluted condition of the facility's discharges, which is also a violation of the requirement to collect representative samples. See Permit Appendix 2 (defining "representative"). These failures are also violations of the Discharge Monitoring Report conditions of Permit Condition S9.B. All these violations have occurred and continue to occur each and every quarter during the last five years that Union Pacific was and is required to sample its stormwater discharges, including the quarters in which it collected stormwater discharge samples from some, but not all, points of discharge. These violations will continue until Union Pacific commences monitoring and reporting all distinct points of discharge.

B. Failure to Comply with Visual Monitoring Requirements.

Conditions S7.A and B of the Permits requires that monthly visual inspection be conducted at the facility by qualified personnel. Each inspection is to include observations made at stormwater sampling locations and all areas where stormwater associated with industrial activity is discharged, observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in the stormwater discharges, observations for the presence of illicit discharges, a verification that the descriptions of potential pollutant sources required by the permit are accurate, a verification that the site map in the SWPPP reflects current conditions, and an assessment of all BMPs that have been implemented (noting the effectiveness of the BMPs inspected, the locations of BMPs that need maintenance, the reason maintenance is needed and a schedule for maintenance, and locations where additional or different BMPs are needed).

Condition S7.C of the Permits requires that Union Pacific record the results of each inspection in an inspection report or checklist maintained on-site that documents the required observations, verifications, and assessments. The report/checklist must include the time and date of the inspection, the locations inspected, a statement that, in the judgment of the person conducting the inspection and the responsible corporate officer, the facility is either in compliance or out of compliance with the SWPPP and the Permits, a summary report and schedule of implementation of the remedial actions that Union Pacific plans to take if the site inspection indicates that the facility is out of compliance, the name, title, signature and certification of the person conducting the facility inspection, and a certification and signature of the responsible corporate officer or a duly authorized representative.

Union Pacific is in violation of these requirements of Condition S7 of the Permits because, during the last five years, it has failed to conduct each of the requisite visual monitoring and inspections, failed to prepare and maintain the requisite inspection reports or checklists, and failed to make the requisite certifications and summaries.

IV. CORRECTIVE ACTION VIOLATIONS.

A. Violations of the Level One Requirements.

Condition S8.B of the Permits requires Union Pacific take specified actions, called a "Level One Corrective Action," each time quarterly stormwater sample results exceed a benchmark value or are outside the benchmark range for pH.

As described by Condition S8.B of the Permits, a Level One Corrective Action requires Union Pacific to: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the Permits and contains the correct BMPs from the applicable Stormwater Management Manual; (2) make appropriate revisions to the SWPPP to include additional operational source control BMPs with the goal of achieving the applicable benchmark values in future discharges and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the Permits; and (3) summarize the Level One Corrective Action in the Annual Report required under Condition S9.B of the Permits. Condition S8.B.4 of the Permits require Union Pacific implement the revised SWPPP as soon as possible, and no later than the DMR due date for the quarter the benchmark was exceeded.

Condition S5.A and Table 2 of the Permits establishes the following benchmarks: turbidity 25 NTU; no observed oil sheen; pH 5 – 9 SU; total copper 14 μ g/L; and total zinc 117 μ g/L. Condition S5.B and Table 3 of the Permits establish the following additional benchmark for transportation facilities applicable to Union Pacific: Petroleum Hydrocarbons (Diesel Fraction) – 10 mg/L.

Union Pacific has violated the requirements of the Permits described above by failing to conduct a Level One Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs, and the required summarization in the annual report each time since July 1, 2015, its quarterly stormwater sampling results were greater than a benchmark value or outside the benchmark range for pH, including the benchmark excursions listed in Table 1 above.

B. Violations of the Level Two Requirements.

Condition S8.C of the Permits requires Union Pacific take specified actions, called a "Level Two Corrective Action," each time quarterly stormwater sample results exceed an applicable benchmark value or are outside the benchmark range for pH for any two quarters during a calendar year. The Permits establish the benchmarks applicable to Union Pacific, as described above in section IV.A of this notice of intent to sue letter.

As described by Condition S8.C of the Permits, a Level Two Corrective Action requires Union Pacific: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the Permits; (2) make appropriate revisions to the SWPPP to include additional structural source control BMPs with the goal of achieving the applicable benchmark value(s) in future discharges and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the 2015 Permit and S3.A.5 of the 2020 Permit; and (3) summarize the Level Two Corrective Action (planned or take) in the Annual Report required under Condition S9.B of the 2015 Permit and S9.C of the 2020 Permit. Condition S8.C.4 of the Permits require Union Pacific implement the revised SWPPP according to condition S3 of the Permits and the applicable stormwater management manual as soon as possible, and no later than August 31st of the following year.

Union Pacific has violated the requirements of the Permits described above by failing to conduct a Level Two Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs, including additional structural source control BMPs, and the required summarization in the annual report each time since July 1, 2015, its quarterly stormwater sampling results were greater than a benchmark or outside the benchmark range for pH for any two quarters during a calendar year. As indicated in Table 1 above, Union Pacific triggered Level Two Corrective Action requirements in 2019 for copper. Under Condition S8.C of the Permits, these Level Two Corrective Action must be completed no later than August 31, 2020. Union Pacific failed to summarize any planned Level Two Corrective Actions in its 2019 Annual Report, a violation of the Permit, and its failure to fully implement the required Level Two Corrective Actions by August 31, 2020, will constitute additional Permit violations subject to this notice of intent to sue.

V. EFFLUENT LIMITATION VIOLATIONS.

Condition S6.C of the Permits requires Permittees discharging to a "303(d)-listed" waterbody (Water Quality Category 5), either directly or indirectly through a stormwater drainage system, to comply with the applicable sampling requirements and numeric effluent limits in Table 6 of the Permits. The "applicable sampling requirements and numeric effluent limits" means the sampling and effluent limits in Table 6 that correspond to the specific parameter(s) for which the receiving water is 303(d)-listed at the time of permit coverage, or Total Suspended Solids (TSS) if the waterbody is 303(d)-listed for sediment quality at the time of permit coverage.

Union Pacific discharges to the Duwamish River, which is 303(d)-listed for sediment quality. Union Pacific's discharges are thus subject to a maximum daily effluent limitation of 30 mg/L for TSS. Union Pacific discharges stormwater that contains elevated levels of TSS in excess of the corresponding numeric effluent limitation, as indicated in the table of effluent limitation violations below. Union Pacific also discharges stormwater with TSS levels in excess of the numeric effluent limitation from un-monitored points of discharge, as indicated by Ecology's observations of highly turbid runoff from the site that went un-monitored and the activities and lack of BMPs in the drainage basins where Union Pacific does not monitor discharges. Each and every one of these discharges is a separate violation of the Permits. These numeric effluent limitation violations also occurred each and every day over the past five years on which there is at least 0.1 inch of precipitation in a 24-hour period and are reasonably likely to recur. Precipitation data from that time period is appended to this notice of intent to sue and identifies these days.

Table 2 – Numeric Effluent Limitation Violations

Quarter in which sample collected	Total Suspended Solids (TSS) concentration
(outfall number)	(limitation: 30 mg/L)
2Q 2019 (004)	95 mg/L
2Q 2019 (005)	49 mg/L
2Q 2019 (006)	55 mg/L

VI. VIOLATIONS OF THE ANNUAL REPORT REQUIREMENTS.

Condition S9.B of the 2015 Permit and S9.C of the 2020 Permit require Union Pacific to submit an accurate and complete annual report to Ecology no later than May 15 of each year. The annual report must include corrective action documentation as required in Condition S8.B – D of the Permits. If a corrective action is not yet completed at the time of submission of the annual report, Union Pacific must describe the status of any outstanding corrective action. Specific information to be included in the annual report includes: identification of the conditions triggering the need for corrective action; description of the problem and identification of dates discovered; summary of any Level 1, 2, or 3 corrective actions completed during the previous calendar year and the dates corrective actions completed; and description of the status of any Level 2 or 3 corrective actions triggered during the previous calendar year, including identification of the dates Union Pacific expects to complete corrective actions.

Union Pacific has violated this condition. The annual report submitted by Union Pacific for 2019 (in May 2020) does not include the required information. Specifically, the report does not describe all of the stormwater problems identified, such as those discussed in February and March 2019 inspection reports by Ecology, does not address the 3rd quarter 2019 copper benchmark exceedance, and does not include a description of additional operational and structural source control BMPs Union Pacific implemented or plans to implement as part of its Level 1 and 2 corrective actions.

VII. VIOLATIONS OF THE RECORDKEEPING REQUIREMENTS.

A. Failure to Record Information.

Condition S4.B.3 of the Permits requires Union Pacific record and retain specified information for each stormwater sample taken, including the sample date and time, a notation describing if Union Pacific collected the sample within the first 12 hours of a stormwater discharge event, an explanation of why Union Pacific could not collect a sample within the first 12 hours of a stormwater discharge event, the sample location, the method of sampling and preservation, and the individual performing the sampling. Union Pacific is in violation of these conditions as it has not recorded each of these specified items for each sample taken during the last five years.

B. Failure to Retain Records.

Condition S9.C of the 2015 Permit and S9.D of the 2020 Permit require Union Pacific to retain for a minimum of five years a copy of the current Permit, a copy of Union Pacific's coverage letter, records of all sampling information, inspection reports including required documentation, any other documentation of compliance with permit requirements, all equipment calibration records, all BMP maintenance records, all original recordings for continuous sampling instrumentation, copies of all laboratory results, copies of all required reports, and records of all data used to complete the application for the Permit. Union Pacific

is in violation of these conditions because it has failed to retain records of such information, reports, and other documentation during the last five years.

VIII. FAILURE TO REPORT PERMIT VIOLATIONS.

Condition S9.E of the 2015 Permit and S9.F of the 2020 Permit require Union Pacific to take certain actions in the event Union Pacific is unable to comply with any of the terms and conditions of the Permits which may endanger human health or the environment or exceed any numeric effluent limitation in the permit. In such circumstances, Union Pacific must immediately take action to minimize potential pollution or otherwise stop the noncompliance and correct the problem, and Union Pacific must immediately notify the appropriate Ecology regional office of the failure to comply. Union Pacific must then submit a detailed written report to Ecology, including specified details, within 5 days of the time Union Pacific became aware of the circumstances unless Ecology requests an earlier submission.

Union Pacific routinely violates these requirements, including each and every time Union Pacific exceeded the numeric effluent limitation, as specified in Table 2, above, each and every time Union Pacific failed to comply with the corrective action requirements described in section IV of this notice of intent to sue, and each and every time Union Pacific discharged stormwater with concentrations of pollutants in excess of the Permit benchmarks, as described in Table 1 above. All these violations may endanger human health or the environment.

IX. REQUEST FOR SWPPP.

Pursuant to Condition S9.G of the 2020 Permit, Puget Soundkeeper Alliance hereby requests that Union Pacific Railroad Company provide a copy of, or access to, its SWPPP complete with all incorporated plans, monitoring reports, checklists, and training and inspection logs. The copy of the SWPPP and any other communications about this request should be directed to the undersigned at the letterhead address.

Should Union Pacific fail to provide the requested complete copy of, or access to, its SWPPP as required by Condition S9.G of the 2020 Permit, it will be in violation of that condition, which violation shall also be subject to this notice of intent to sue and any ensuing lawsuit.

X. CONCLUSION.

The above-described violations reflect those indicated by the information currently available to Soundkeeper. These violations are ongoing. Soundkeeper intends to sue for all violations, including those yet to be uncovered and those committed after the date of this Notice of Intent to Sue.

Under Section 309(d) of the CWA, 33 U.S.C. § 1319(d), each of the above-described violations subjects the violator to a penalty of up to \$37,500 per day for each violation that

occurred through November 2, 2015, and \$55,800 per day for each violation that occurred thereafter. In addition to civil penalties, Soundkeeper will seek injunctive relief to prevent further violations under Sections 505(a) and (d) of the CWA, 33 U.S.C. § 1365(a) and (d), and such other relief as is permitted by law. Also, Section 505(d) of the CWA, 33 U.S.C. § 1365(d), permits prevailing parties to recover costs, including attorney's fees.

Puget Soundkeeper Alliance believes that this NOTICE OF INTENT TO SUE sufficiently states grounds for filing suit. We intend, at the close of the 60-day notice period, or shortly thereafter, to file a citizen suit against Union Pacific Railroad Company under Section 505(a) of the Clean Water Act for violations.

During the 60-day notice period, we would be willing to discuss effective remedies for the violations addressed in this letter and settlement terms. If you wish to pursue such discussions in the absence of litigation, we suggest that you initiate those discussions within 10 days of receiving this notice so a meeting can be arranged and negotiations may be completed promptly. We do not intend to delay the filing of a complaint if discussions are continuing when the notice period ends.

Very truly yours,

SMITH & LOWNEY, PLLC

s/Marc Zemel

cc: Andrew Wheeling, Administrator, U.S. EPA
Chris Hladick, Region 10 Administrator, U.S. EPA
Laura Watson, Director, Washington Department of Ecology
CT Corporation System, Registered Agent (711 Capitol Way S, Suite 204, Olympia, WA 98501)

National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

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National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Record of Climatological

Observations

Generated on 07/24/2020

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's" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

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"s" This data value failed one of NCDC's quality control tests.

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Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

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National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

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2015	60	22				0.00		0.0										e 3
2015	60	23				0.00		0.0										30
2015	60	24				0.00		0.0										of
2015	60	25				_												8
2015	60	56				0.00		0.0										8
2015	60	27				0.00		0.0										
2015	60	28				0.00		0.0										
2015	60	59				0.00		0.0										
2015	60	30				0.00		0.0										
		Summary				0.93		0.0										
, thum	ollog yard	todt otocibori	, a 0040 040b 0 +	00 0011	Later Comment													

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations. **Observations**

> Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

					5	בומוסת כ	Gellelated Oll 0772472020								
Tem	Temperature (F)	ıre (F)			Precipitation			Evaporation	ration			Soil Temp	Soil Temperature (F)		
24 Hrs. Ending at Observation Time	ding a		24 Hc	our Amou Observat	24 Hour Amounts Ending at Observation Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
Мах.	Min	_ 0 0 -> a +- 0 c	Rain, Melted Snow, Etc. (in)	т – в р	Snow, Ice Pellets, Hail (in)	ш — « ъ	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
			0.00		0.0										cv
			0.00		0.0										-0
			⊢												14
			0.00		0.0										83
			0.00		0.0										
			0.00		0.0										D
			0.03												С
			0.34												un
			Т												ne
			0.29												nt
			0.87												1
			0.01												F
			0.49												ïl€
			0.01												ed
															10
)/0
															7/
															20
)
			0.18												Pa
			0.00		0.0										ıg
			Т												e)
			00.00		0.0										31
			0.00		0.0										of
			Т												8
			0.46												8
			90.0												
			⊥												
			0.10												
			0.26												
			0.80												
			3.90		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded. "s" This data value failed one of NCDC's quality control tests.

National Centers for Environmental Information Asheville, North Carolina 28801 Record of Climatological **Observations**

151 Patton Avenue

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Empty, or blank, cells indicate that a data observation was not reported.

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

į
Precipitation
24 Hour Amounts Ending at Observation Time
0.0
0.0
0.0

Empty, or blank, cells indicate that a data observation was not reported.

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National Centers for Environmental Information

151 Patton Avenue Asheville, North Carolina 28801

> These data are quality controlled and may not be identical to the original observations. **Observations**

Record of Climatological

Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

								5	200	מכווכו מוכם כוו פון ביו ביובסבם				-			-	
			Te	Temperature (F)				Precipitation			Evaporation	ation			Soil Temperature (F)	erature (F)		
		,	24 Hrs. E Observat	24 Hrs. Ending at Observation Time	¥0	24 Ho	24 Hour Amounts Er Observation Tir	ints Ending at ion Time	ıt.	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑oc+c	O a >	Мах.	Min.	ი ი	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pelets, Hail (in)	т — в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	01	01				0.00		0.0										CV
2016	10	02				0.00		0.0										-0:
2016	01	03				00.00		0.0										14
2016	01	04				0.02												83
2016	10	05				0.03												
2016	01	06				0.10												Do
2016	01	07				0.00		0.0										OC
2016	01	80				0.00		0.0										un
2016	01	00				0.00		0.0										ne
2016	01	10				0.00		0.0										nt
2016	01	11				T												1
2016	01	12				0.15												F
2016	01	13				0.35												ile
2016	01	14				0.55												ed
2016	01	15				0.01												10
2016	01	16				0.39)/0
2016	01	17				0.17												7/
2016	10	18				0.20												20
2016	01	19				0.04)
2016	10	20				0.44												Pa
2016	01	21				99.0												ıge
2016	01	22				0.92												Э \$
2016	10	23				0.17												34
2016	01	24				0.47												of
2016	01	25				00.00		0.0										8
2016	01	26				0.04												8
2016	01	27				0.34												
2016	01	28				1.57												
2016	01	29				0.05												
2016	10	30				0.11												
2016	01	31				0.00		0.0]								
		Summary				6.78		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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[&]quot;T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

Record of Climatological National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not **Observations**

151 Patton Avenue

Asheville, North Carolina 28801

National Centers for Environmental Information

be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Otation.	ולאן . דר יי	Station: SEATTLE 3:0 33E, WA 03 03 WANGSE		00200				Ger	nerated or	Generated on U//24/2020		:		Observation Time Temperature, Original Observation Time Treopitation, Original One	() ()	. (100)	a r i acipitatio	
			<u></u>	lemperature (F)				Precipitation			Evaporation	ration			Soil lemperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	inding at ion Time	¥0	24 Ho	ur Amou Ibservat	24 Hour Amounts Ending at Observation Time	at.	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	≥0c+£	O a y	Мах.	Min.	ი ა ი ა c ი c	Rain, Melted Snow, Etc. (in)	н — « р	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	02	10				0.28												cv
2016	02	02				0.02												-0:
2016	02	03				0.02												14
2016	02	04				0.55												83
2016	02	90				0.01												
2016	02	90				0.20												Do
2016	02	07				0.00					_							OC
2016	02	80				0.00		0.0										un
2016	02	60				0.00		0.0										ne
2016	02	10				0.00												nt
2016	02	11				0.18					1							1
2016	02	12				1.18												F
2016	02	13				0.73					_							il€
2016	05	14				0.35					_							d
2016	02	15				0.12					_							10
2016	02	16				0.43					1)/0
2016	02	17				Т					1							7/
2016	02	18																20
2016	02	19				0.27					_)
2016	05	20				0.43					_							Pá
2016	02	21				0.00					_							ıgı
2016	02	22				0.11					_							e 3
2016	02	23				0.00		0.0										35
2016	02	24				0.00		0.0										of
2016	02	25				0.01					1							8
2016	02	26				0.00		0.0										8
2016	02	27				0.24												
2016	02	28				0.07												
2016	05	29				1.07												
		Summary				6.27		0.0										
Empty, o	r blank, cells	indicate that	a data obser	Empty, or blank, cells indicate that a data observation was not reported	ot reported	_												

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

National Centers for Environmental Information

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations** Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

							5									-	
		Te	Temperature (F)				Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
		24 Hrs. Ending at Observation Time	inding at ion Time	¥0.	24 HC	our Amou Observa	24 Hour Amounts Ending at Observation Time	#	At Obs. Time				4 in. Depth			8 in. Depth	
≥०⊏+⊏	Οαγ	Мах.	Min.	ი ი ი ი ი	Rain, Melted Snow, Etc. (in)	т — в р	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
03	01				0.28												cv
03	02				0.68												-0 :
03	03				0.19												14
03	04				0.02												83
03	05				0.41												
03	90				90.0												Do
03	07				0.81												OC
03	80				0.09												un
03	60				0.14												ne
03	10				0.95												nt
03	11				0.38												1
03	12				0.60												F
03	13				0.17												ile
03	14				0.30												d
03	15				0.07												10
03	16				0.00		0.0)/0
03	17				0.00		0.0										7/
03	18				00:00												20
03	19				00:00		0.0										
03	20				⊢												Pa
03	21				0.13												ıg
03	22				0.24												0
03	23				0.02												36
03	24				0.15												of
03	25				Т												8
03	26				0.00		0.0										8
03	27				0.16												
03	28				0.32												
03	29				0.00												
03	30				00:00		0.0										
03	31				0.00		0.0										
	Summary				6.17		0.0										

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Record of Climatological **Observations**

National Environmental Satellite, Data, and Information Service

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

be identical to Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Gene

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

These data are quality controlled and may not be identical to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

151 Patton Avenue

Asheville, North Carolina 28801

National Centers for Environmental Information

			Case 2:20-	CV	-0	14	83		Do	oc	un	ne	nt	1	F	il∈	d	10)/0	7/	20		Pa	ıgı	e 3	37	of	8	8				
	o i o	8 in. Depth	Мах.																														
rature (F)	(1)		Ground Cover (see *)																														
Soil Temperature (F)			Min.																														
	d is A	4 in. Depth	Мах.																														
2			Ground Cover (see *)																														
ation		•	Amount of Evap. (in)																														
Evaporation	3		24 Hour Wind Movement (mi)																												_		
tion	At Obs.	Time	Snow, Ice Pellets, Hail, Ice on Ground (in)																														
פן מופח סו	_	,	н — с р																												-		
Precipitation	nts Ending a	Observation Time	Snow, Ice Pellets, Hail (in)		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0				0.0								0.0	0.0
٩	r Amour	bservation	н— в р))	O))	O))))							_		
	24 Hou	0-	Rain, Melted Snow, Etc. (in)	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.69	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.00		0.03	0.01	0.27	0.02	F	_	0.00	0.00
	At	0.0	ν ο ο c																														
Temperature (F)	nding at	on Time	Min.																														
Ter	24 Hrs. E	Observation Time	Мах.																														
			Λαρ	10	02	03	04	90	90	20	80	60	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	ì	28	78 78 1
		:	∑ 05 + ⊏	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04		04	04
			> • • ·	2016 0	2016 0			2016 0	2016 0	2016 0	2016	2016 0	2016 0	2016	2016	2016 0	2016 0	2016	2016	2016 0	2016 0	2016 0	2016	2016	2016			2016 0		2016			

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations. **Observations**

					5	5	מכווכן מוכם כון פון באבטבם				-			-	
	Temperature (F)				Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
24g	24 Hrs. Ending at Observation Time	φo	24 Ho C	Jbservat	24 Hour Amounts Ending at Observation Time	ıt	At Obs. Time				4 in. Depth			8 in. Depth	
	Max. Min.	ი თ - > თ 0 ⊏	Rain, Melted Snow, Etc. (in)	т — в р	Snow, Ice Pellets, Hail (in)	ш— « ъ	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
			0.00												cv
			0.00												-0
L			0.00		0.0										14
L			0.00												83
L.			0.00												
			0.00												Do
			0.00												OC
L			0.05												un
			0.02												ne
			0.00		0.0										nt
			0.00												1
			0.00		0.0										F
			0.00		0.0										il∈
-			0.00		0.0										ed
			⊢												10
			0.08)/C
г			⊢												7/
_			0.00												20
			0.35												
			0.40												Pa
			0.04												ag
			0.17												e 3
			⊢												88
			0.00		0.0										O
г			0.00												8
			0.00		0.0										8
			0.00		0.0										
			0.11												
Γ			0.03												
			0.03												
			0.00		0.0										
_	Summary		1.28		0.0						•			•	

Empty, or blank, cells indicate that a data observation was not reported.

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Record of Climatological National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observations

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

			Te	Temperature (F)	_		a.	Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	nding at ion Time	`	24 Ho	24 Hour Amounts Er Observation Tii	nts Ending at ion Time	#	At Obs. Time				4 in. Depth			8 in. Depth	
> o o -	≥0c+c	D A	Мах.	Min.	_ o o > a o c	Rain, Melted Snow, Etc. (in)	т – с о	Snow, Ice Pellets, Hail (in)	п — ар	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	90	10				0.00												cv
2016	90	02				0.04												-0
2016	90	03				0.00		0.0										14
2016	90	04				0.00												83
2016	90	05				0.00												
2016	90	90				0.00												D
2016	90	07				0.00												DC
2016	90	80				0.00												un
2016	90	60																ne
2016	90	10				0.04												nt
2016	90	11				0.02												1
2016	90	12				0.09												F
2016	90	13				0.00												ile
2016	90	14				0.01												d
2016	90	15				0.03												10
2016	90	16				0.00		0.0										/0
2016	90	17				0.00	_	0.0										7/
2016	90	18				0.38												20
2016	90	19				0.01												
2016	90	20				0.00		0.0										Pa
2016	90	21				1.13												ıgı
2016	90	22				0.00		0.0										e 3
2016	90	23				0.07												39
2016	90	24				0.39												of
2016	90	25				0.03												8
2016	90	26				0.00	_	0.0										8
2016	90	27				0.00		0.0										
2016	90	28				0.00		0.0										
2016	90	29				0.00		0.0										
2016	90	30				0.00		0.0										
		Summary				2.24		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 Page 88 Document 1 40 of 8 in. Depth Max. Soil Temperature (F) Ground Cover (see *) Ξ Ë in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 0.00 0.00 0.00 0.00 0.16 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.25 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.00 0.59 0.11 0.01 TO - + a < - e s D D A Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 5 2 2 2 23 25 26 27 28 07 24 29 30 5 31 > 0 = + = 07 - a e -2016 2016

Empty, or blank, cells indicate that a data observation was not reported.

Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

^{&#}x27;s" This data value failed one of NCDC's quality control tests.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 Document 1 Page 88 of 8 in. Depth Max. Soil Temperature (F) Ground Cover (see *) Ē. in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 0.00 0.00 90.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 90.0 ta < r e s b Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Station: SEATTLE 5.8 SSE, WA US US1WAKG0200 Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 5 2 2 2 23 24 25 56 28 07 27 29 30 5 31 > 0 = + = 80 80 80 80 08 88 80 08 08 80 08 80 80 08 80 80 8 8 80 08 80 80 08 80 80 08 80 80 80 - a e -2016 2016

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Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

								5		deliciated on ordericated								
			Tem	Temperature (F)			-	Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	ding at n Time	¥ο	24 Ho⊍ C	ır Amou bservati	24 Hour Amounts Ending at Observation Time		At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑0c+£	O a >	Мах.	Min.	ი აი - > თ + - 0 ⊏	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	ш— « ъ	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	60	10				0.01												cv
2016	60	02				0.07												-0
2016	60	03				0.21												14
2016	60	04				0.19												83
2016	60	05				00.00		0.0										
2016	60	90				0.20												D
2016	60	20				0.01												oc
2016	60	80				70.0												un
2016	60	60				0.00												ne
2016	60	10				0.00		0.0										nt
2016	60	11				0.00		0.0										1
2016	60	12				0.00		0.0										F
2016	60	13				0.00		0.0										ile
2016	60	14				0.00												d
2016	60	15				0.00		0.0										10
2016	60	16				0.00		0.0)/0
2016	60	17				0.12												7/
2016	60	18				0.24												20
2016	60	19				0.01)
2016	60	20				0.01												Pa
2016	60	21				0.00		0.0										age
2016	60	22				0.00		0.0										e 4
2016	60	23				⊢												12
2016	60	24				_												of
2016	60	25				0.00												8
2016	60	26				0.00		0.0										8
2016	60	27				0.00		0.0										
2016	60	28				0.00		0.0										
2016	60	29				0.00		0.0										
2016	60	30				0.00		0.0										
		Summary				1.14		0.0										
	-11		-	:														

Empty, or blank, cells indicate that a data observation was not reported.

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151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SE	EATTLE 5.8	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	0200				Generated on 07/24/2020	erated or	Generated on 07/24/2020	rvations.	Observa	tion Time Te	Observation Time Temperature: Unknown Observation Time Precipitation: Unknown	ıknown Obs	servation Tim	e Precipitatio	n: Unknown
			Tem	Temperature (F)			_	Precipitation			Evaporation	ration			Soil Temp	Soil Temperature (F)		
			24 Hrs. Ending at Observation Time	ding at	¥0	24 Ho C	ur Amot bservat	24 Hour Amounts Ending at Observation Time	ţ	At Obs. Time				4 in. Depth			8 in. Depth	
- a a -	∑0c+⊏	O a >	Мах.	Min.	O v o - > a + - o c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pelets, Hail (in)	т – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	10	10				0.05												cv
2016	10	02				90.0												-0:
2016	10	03				0.00		0.0										14
2016	10	04				80.0												83
2016	10	90				90.0												
2016	10	90				0.01												D
2016	10	20				0.46												C
2016	10	80				0.12												un
2016	10	60				0.89												ne
2016	10	10				0.17												nt
2016	10	11				0.00		0.0										1
2016	10	12				0.00		0.0										F
2016	10	13				0.52												ile
2016	10	14				2.07												d
2016	10	15				1.41												10
2016	10	16				69.0)/C
2016	10	17				0.33												7/
2016	10	18				0.19												20
2016	10	19				0.01												
2016	10	20				1.18												Pa
2016	10	21				0.49												age
2016	10	22				0.01												e 4
2016	10	23				0.17												13
2016	10	24				0.01												of
2016	10	25				0.15												8
2016	10	26				0.28												8
2016	10	27				1.54												
2016	10	28				0.07												
2016	10	29				0.08												
2016	10	30				60.0												
2016	10	31				0.36												
		Summary				11.55		0.0										
Two vita	ollog starts	todt otoo:bos:			Post Carrie													

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			F	L,					מומומ	מסווסומנסט סוו סוויבייניס					H	Ĺ		
			lei	lemperature (F)			-	Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	nding at on Time	¥0	24 Ho C	ur Amou bservat	24 Hour Amounts Ending at Observation Time	at	At Obs. Time		_		4 in. Depth		}	8 in. Depth	
> o a -	∑0c+⊏	O a >	Мах.	Min.	ე თ ⇔ ∽ > თ + - ი c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pelets, Hail (in)	ш— в Б	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	1	10				1.10												cv
2016	11	02				0.14												-0
2016	11	03				0.44												14
2016	1	04				00.00		0.0										83
2016	11	05				0.20												
2016	11	90				1.43					1							Do
2016	11	20				0.05					1							OC
2016	11	80				0.01												un
2016	11	60				0.05												ne
2016	11	10				0.17												nt
2016	11	11				0.00		0.0										1
2016	11	12				0.10												F
2016	11	13				90.0												ile
2016	11	14				0.39												d
2016	11	15				0.98												10
2016	1	16				0.33												/0
2016	11	17				0.01												7/
2016	11	18				0.00		0.0										20
2016	11	19				90.0												
2016	11	20				0.09												Pa
2016	11	21				0.08												ıge
2016	11	22				0.01												e 4
2016	11	23				0.62												14
2016	11	24				0.50												of
2016	11	25																8
2016	11	26																8
2016	11	27				1.64												
2016	1	28				0.47												
2016	11	29				0.01												
2016	11	30				0.20												
		Summary				9.14		0.0										
L	eller der	to alt atonibati		:	7 - 1 - 1													

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*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

								5		מפווסו מומס פון פון ביי בפב				-			-	
			Te	Temperature (F)				Precipitation		Ī	Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	Ending at tion Time	4 0	24 Ho C	ur Amou Ibservat	24 Hour Amounts Ending at Observation Time	ıt.	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑0c+€	Οαγ	Мах.	Min.	ი ა ი ი - ი ი	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pelets, Hail (in)	т – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2016	12	10				0.05												cv
2016	12	02				90.0												-0:
2016	12	03				0.23												14
2016	12	04				0.23												83
2016	12	05				90.08												
2016	12	90				0.22												Do
2016	12	07				0.00		0.0										OC
2016	12	08				0.00		0.0										un
2016	12	60																ne
2016	12	10				0.23												nt
2016	12	11																1
2016	12	12				0.31												F
2016	12	13				0.03												ile
2016	12	14				0.00		0.0										d
2016	12	15				0.00		0.0										10
2016	12	16				0.00		0.0										/0
2016	12	17				0.00		0.0										7/
2016	12	18				0.00		0.0										20
2016	12	19				0.46												
2016	12	20				0.30												Pa
2016	12	21				0.00		0.0										ıge
2016	12	22				0.00		0.0										9 4
2016	12	23				0.72												15
2016	12	24				0.32												of
2016	12	25				0.01												8
2016	12	26				0.00		0.0										8
2016	12	27				0.55												
2016	12	28				0.01												
2016	12	29				0.00		0.0										
2016	12	30				0.25												
2016	12	31				0.01												
		Summary				4.07		0.0										

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^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

[&]quot;s" This data value failed one of NCDC's quality control tests.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 Page 88 Document 1 46 of 8 in. Depth Max. Ground Cover (see *) Soil Temperature (F) Ē. in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 0.59 0.20 0.00 0.00 0.00 0.00 0.19 0.03 0.00 0.00 0.00 0.00 0.05 2.39 0.16 0.04 0.11 0.00 0.05 0.00 0.00 0.00 0.00 0.61 0.01 4.41 0.01 <u>-</u> ta < r e s b Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 5 2 2 2 23 24 25 56 28 07 27 29 30 5 31 > 0 = + = 5 5 5 5 5 5 5 9 9 5 9 9 5 9 5 01 9 9 01 9 9 9 9 9 9 9 9 9 9 - a e -2017 2017

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National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

151 Patton Avenue

Asheville, North Carolina 28801

National Centers for Environmental Information

								200	ממס	dellelated oil 07724/2020							-	
			Temp	Temperature (F)			4	Precipitation			Evaporation	ation			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	ding at n Time	¥0	24 Hou	ır Amou bservati	24 Hour Amounts Ending at Observation Time		At Obs. Time			,	4 in. Depth			8 in. Depth	
> o a -	∑0c+c	O a y	Мах.	Min.	ი ა ი ი c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	т – ар	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2017	02	01				0.00		0.0										cv
2017	02	02				00.00		0.0										-0:
2017	02	603				0.12												14
2017	02	04			,	0.85												83
2017	02	90			,	0.71												
2017	02	90				1.23	1	4.8										Do
2017	02	07				0.17												OC
2017	02	80				0.02												un
2017	02	60			,	2.02												ne
2017	02	10				0.82												nt
2017	02	11			-	0.03												1
2017	02	12				0.02												F
2017	02	13				0.00	J	0.0										il€
2017	02	14				0.00)	0.0										d
2017	02	15				1.09												10
2017	02	16				1.75)/0
2017	02	17			,	0.03												7/
2017	02	18				0.02												20
2017	02	19			-	0.18)
2017	02	20				0.11												Pá
2017	02	21				0.25												ıgı
2017	02	22				0.29												e 4
2017	02	23				0.01												17
2017	02	24				0.08												of
2017	02	25			,	0.01												8
2017	02	26				0.23												8
2017	02	27				0.37		0.3	1									
2017	02	28				0.20												
		Summary				10.61	-/	5.1										

Empty, or blank, cells indicate that a data observation was not reported.

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Generated on 07/24/2020

Station: SE	ATTLE 5.8	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	0200				Gene	erated or	Generated on 07/24/2020	valiolis.	Observa	ation Time Te	Observation Time Temperature: Unknown Observation Time Precipitation: Unknown	าknown Obs	servation Tim	e Precipitatio	n: Unknown
			Tem	Temperature (F)			-	Precipitation			Evaporation	ation			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	ding at	¥0.	24 Ho	ur Amou bservat	24 Hour Amounts Ending at Observation Time	_	At Obs. Time				4 in. Depth			8 in. Depth	
- a a -	∑0c+⊏	O a >	Мах.	Min.	_ o o > a o c	Rain, Melted Snow, Etc. (in)	т — в р	Snow, Ice Pellets, Hail (in)	т – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2017	03	10				—												cv
2017	03	02				0.02												-0
2017	03	03				0.10												14
2017	03	04				0.82												83
2017	03	05				0.14												
2017	03	90				0.01												D
2017	03	20				60.0												OC
2017	03	08				0.44												un
2017	03	60				0.15												ne
2017	03	10				0.52												nt
2017	03	11				0.02												1
2017	03	12				0.33												F
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2017	03	15				0.54												10
2017	603	16				0.34)/0
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2017	03	18				96.0												20
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2017	03	21				0.15												ıgı
2017	03	22				0.05												e 4
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2017	03	24				0.33												of
2017	03	25				0.43												8
2017	03	26				0.01												8
2017	03	27				0.35												
2017	03	28				60.0												
2017	03	29				0.35												
2017	03	30				0.13												
2017	03	31				0.02												
		Summary				8.00		0.0										
7	ollog desire	the all a same the same			-													

Empty, or blank, cells indicate that a data observation was not reported.

^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

[&]quot;s" This data value failed one of NCDC's quality control tests.

[&]quot;T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

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(L)
24 Hrs. Ending at At 24 Hour Amounts Ending at Observation Time Observation Time
b e e r Ra v Met a Snow i (ii
0.03
0.08
0.02
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0.37
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0.39
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0.09
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0.34
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0.09
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Empty, or blank, cells indicate that a data observation was not reported.

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case				(a) ounterout				della		#OF		cotton		Coil Tomp	oroturo (E)	(E)	
1 2 2 2 2 2 2 2 2 2			<u> </u>	iperature (r		;]	riccipitation			Evapo	Janon		2011	elatule (r.)		
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OT OT OT OT OT OT OT OT			Мах.	Min.		Rain, Melted Snow, Etc. (in)	ш — а р	Snow, Ice Pellets, Hail (in)		Snow, Ice Pellets, Hail, Ice on Ground (in)			Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
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11 11 11 11 11 11 11 1	90	10				0.00		0.0									nt
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13 13 15 16 16 16 17 18 18 18 18 18 18 18	05	12				0.30											F
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15 16 17 18 19 19 19 19 19 19 19	05	14				0.02											d
16 0.47 0.67 0.65 0	05	15				⊢											10
17 0.05 0.06 0.01 0.01 0.00 0	05	16				0.47)/0
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19 0.00	05	18				0.01											20
20 0.00 0	05	19				0.00		0.0									
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26 0.00 0	05	25				0.00		0.0									8
28 0.00 0.00 28 0.00 30 0.00 0.00 2.82 2.82	05	26															8
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29 0.00 30 0.00 Summary 2.82	05	28															
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31 T Summary 2.82	02	30				0.00		0.0									
2.82	02	31				⊢											
		Summan	À			2.82		0.0									

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National Centers for Environmental Information Record of Climatological **Observations**

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

151 Patton Avenue

Asheville, North Carolina 28801

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			len	lemperature (F)				Precipitation	ľ		Evaporation	ration			Soil remperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	nding at on Time	¥٥	24 Ho	ur Amou bservati	24 Hour Amounts Ending at Observation Time	<u></u>	At Obs. Time				4 in. Depth		}	8 in. Depth	
> o a -	∑ 0c+⊏	Oay	Мах.	Min.	ე ა ა o c	Rain, Melted Snow, Etc. (in)	т — в р	Snow, Ice Pelets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2017	90	01				0.05												cv
2017	90	02				⊢												-0
2017	90	03				0.00		0.0										14
2017	90	04				0.00		0.0										83
2017	90	05				00.00		0.0										
2017	90	90				0.00		0.0										Do
2017	90	07				0.00		0.0										OC
2017	90	08				0.24												un
2017	90	00				0.10												ne
2017	90	10				0.02												nt
2017	90	11				0.00		0.0										1
2017	90	12				0.00		0.0										F
2017	90	13				T												ile
2017	90	14				0.00												d
2017	90	15				0.03												10
2017	90	16				1.40												/0
2017	90	17				0.01												7/
2017	90	18				0.02												20
2017	90	19				T)
2017	90	20				⊢												Pa
2017	90	21				⊢												ıg
2017	90	22				0.00		0.0										e 5
2017	90	23																51
2017	90	24				0.00		0.0										of
2017	90	25				0.00		0.0										8
2017	90	26				0.00		0.0										8
2017	90	27				0.00		0.0										
2017	90	28				0.00		0.0										
2017	90	29				0.00		0.0										
2017	90	30				0.00		0.0										
		Summary				1.87		0.0										
L	-1	14 -14 -17 -17		:														

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151 Patton Avenue Asheville, North Carolina 28801

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Record of Climatological

Observations

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 88 Document 1 Page of 8 in. Depth Max. Soil Temperature (F) Ground Cover (see *) Ē. in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 ta < r e s b Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 5 2 2 2 23 24 25 56 28 07 27 29 30 5 31 > 0 = + = 07 - a e -2017 2017

Empty, or blank, cells indicate that a data observation was not reported.

Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Generated on 07/24/2020 Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Case 2:20-cv-01483 Filed 10/07/20 **5**3 Document 1 Page 88 of 8 in. Depth Max. Soil Temperature (F) Ground Cover (see *) Ē. in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.00 0.00 0.03 ta < r e s Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 5 2 2 2 23 24 25 56 28 07 27 29 30 5 31 > 0 = + = 80 80 80 80 08 88 80 08 90 80 08 80 80 08 80 80 8 8 80 08 80 80 08 80 80 08 80 80 80 - a e -2017 2017

Empty, or blank, cells indicate that a data observation was not reported.

Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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National Centers for Environmental Information Record of Climatological **Observations**

151 Patton Avenue

Asheville, North Carolina 28801

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Generated on 07/24/2020

Station: S	EATTLE 5.8	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	IS US1WAK	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200				Generated on 07/24/2020	rated on	Generated on 07/24/2020		Observa	tion Time Te.	Observation Time Temperature: Unknown Observation Time Precipitation: Unknown	nknown Obs	servation Tim	e Precipitatior	า: Unknown
			Te	Temperature (F)	<u>ا</u>			Precipitation			Evaporation	ration			Soil Temp	Soil Temperature (F)		
			24 Hrs. E Observat	24 Hrs. Ending at Observation Time	¥0	24 Ho C	ur Amou Ibservat	24 Hour Amounts Ending at Observation Time		At Obs. Time				4 in. Depth			8 in. Depth	
> v a -	≥0c+c	O a >	Мах.	Min.	ი აი ი ა	Rain, Melted Snow, Etc. (in)	н— в р	Snow, Ice Pellets, Hail (in)	п — в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20
2017	60	01			=	0.02												-cv
2017	60	02				0.00												·-O
2017	60	03				0.00												14
2017	60	04				0.00												83
2017	60	05				0.00		0.0										
2017	60	90				00.00		0.0										Do
2017	60	20				0.00		0.0										С
2017	60	80				0.00		0.0										un
2017	60	60				0.00		0.0										ne
2017	60	10				Т												nt
2017	60	11				0.00		0.0										1
2017	60	12				0.00		0.0										F
2017	60	13				0.00		0.0										il€
2017	60	14				0.00		0.0										d
2017	60	15				0.00		0.0										10
2017	60	16)/0
2017	60	17				0.00												7/
2017	60	18				0.08												20
2017	60	19				0.51)
2017	60	20				0.51												Pa
2017	60	21				0.02												age
2017	60	22				0.00		0.0										e 5
2017	60	23				0.00		0.0										54
2017	60	24				0.00		0.0										of
2017	60	25				0.02												8
2017	60	26				_												8
2017	60	27				0.00		0.0										
2017	60	28				00.00		0.0										
2017	60	29				00.00		0.0										
2017	60	30				0.04												
		Summary				1.20		0.0										

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

				.				:	2					-		Į.	-	
			Je I	lemperature (F)				Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	nding at on Time	¥0.	24 Hg	ur Amot Ibservat	24 Hour Amounts Ending at Observation Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	≥0c+c	Oay	Мах.	Min.	ე თ ⇔ ∽ > თ ↔ — O ⊏	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2017	10	01				0.02												cv
2017	10	02				00.00		0.0										-0
2017	10	03				0.00		0.0										14
2017	10	04				0.00		0.0										83
2017	10	05				0.00		0.0										}
2017	10	90				0.00		0.0										D
2017	10	07																С
2017	10	80				0.07												un
2017	10	60				0.00		0.0										ne
2017	10	10				0.00		0.0										nt
2017	10	11				0.02												1
2017	10	12				T												F
2017	10	13				0.19												ile
2017	10	14				0.00		0.0										d
2017	10	15				0.00		0.0										10
2017	10	16				0.00		0.0)/0
2017	10	17				0.02												7/
2017	10	18				0.03												20
2017	10	19				1.40												
2017	10	20				0.49												Pa
2017	10	21				0.34												ıg
2017	10	22				0.87												e \$
2017	10	23				0.01												55
2017	10	24				0.00		0.0										of
2017	10	25				0.00												8
2017	10	26				0.01												8
2017	10	27				0.00		0.0										
2017	10	28				0.00		0.0										
2017	10	29				0.00		0.0										
2017	10	30				0.00		0.0										
2017	10	31				0.00		0.0										
		Summary				3.47		0.0										
Empty or	hlank cells	indinate that	Empty or blank cells indicate that a data observation was not reported	notion was no	* renorted													

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151 Patton Avenue Asheville, North Carolina 28801

These data are quality controlled and may not Record of Climatological **Observations**

be identical to the original observations. Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 **5**6 Filed 10/07/20 Page 88 Document 1 of 8 in. Depth Max. Ground Cover (see *) Soil Temperature (F) Ē. in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time ш — в Б 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.1 0.1 **д** — в р Rain, Melted Snow, Etc. (in) 0.60 0.86 0.20 0.00 0.00 0.19 0.25 0.02 0.54 0.35 0.64 0.58 0.08 90.0 0.01 0.00 0.93 0.29 1.20 0.08 0.53 0.14 8.85 0.00 0.00 0.54 0.44 0.11 0.21 Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. □ a > ဗ 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 9 9 8 22 23 25 56 07 2 24 28 29 30 27 > 0 = + = Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ - a e -2017 2017

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

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			Jue	lemperature (F)				Precipitation			Evaporation	ration			Soll lemperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	ling at Time	¥0	24 Ho	ur Amou Ibserva	24 Hour Amounts Ending at Observation Time	#	At Obs. Time				4 in. Depth			8 in. Depth	
- v v -	∑0c+c	Oæ>	Мах.	Min.	დ ა - > a + - o c	Rain, Melted Snow, Etc. (in)	т – в р	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2017	12	10				0.14												cv
2017	12	02				0.23												-0
2017	12	03				99.0												14
2017	12	04				0.01												83
2017	12	05				0.00		0.0										
2017	12	90				0.00		0.0										Do
2017	12	20				0.00		0.0										OC
2017	12	80				0.00		0.0										un
2017	12	60				0.00		0.0										ne
2017	12	10				0.00		0.0										nt
2017	12	11				0.00		0.0										1
2017	12	12				0.00		0.0										F
2017	12	13				0.00		0.0										il€
2017	12	14				0.00		0.0										d
2017	12	15				0.01												10
2017	12	16				0.02)/0
2017	12	17				60.0												7/
2017	12	18				0.14												20
2017	12	19				1.43												
2017	12	20				0.49												Pa
2017	12	21				0.00		0.0										ago
2017	12	22				0.13												е 5
2017	12	23				0.03												57
2017	12	24				0.00		0.0										of
2017	12	25				0.26		2.5										8
2017	12	26				0.01												8
2017	12	27				0.00												
2017	12	28				T												
2017	12	29				0.78												
2017	12	30				0.80												
2017	12	31				0.09												
		Summary				5.32		2.5										

Empty, or blank, cells indicate that a data observation was not reported.

^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

[&]quot;s" This data value failed one of NCDC's quality control tests.

[&]quot;T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 **5**8 Document 1 Page 88 of 8 in. Depth Max. Ground Cover (see *) Soil Temperature (F) Ξ Ë in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 0.00 0.30 0.16 0.38 0.26 0.19 0.35 0.78 0.10 0.00 0.26 0.04 0.87 0.24 0.07 90.0 0.32 0.02 0.33 0.15 0.72 0.13 0.04 0.93 8.12 0.00 0.00 0.44 0.01 0.97 0.00 no -- ta < - e s DOA Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 9 5 2 2 2 23 24 25 56 28 07 27 29 30 5 31 > 0 = + = 5 5 5 5 9 9 5 9 9 5 9 5 9 01 9 9 9 01 9 9 9 9 9 9 9 9 9 9 9 - a e -2018 2018

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Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

151 Patton Avenue

Asheville, North Carolina 28801

National Centers for Environmental Information

Alice Ending at Alice Anounts			Ten	Temperature (F)			Precipitation		tion	Evaporation	ration		-	Soil Temperature (F)	erature (F)	-	
Fain, Fain			24 Hrs. Er Observati	nding at	24 Ho	ur Amou	ints Ending a	+	At Obs.				4 in. Depth			8 in. Depth	
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	□ a >		Max.	Min	Rain, Melted Snow, Etc. (in)	т— « о	Snow, Ice Pellets, Hail (in)	т – а р	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min	Ground Cover (see *)	Мах.	Case 2:20-
	01				0.02												cv
0.05	02	_			0.62												-0
15 15 15 15 15 15 15 15	03				0.03												14
1	04				0.15												83
1 T T T T T T T T T T T T T T T T T T T	05				0.02												
0.00 0.03 0.03 0.00 0.00 0.00 0.00 0.05 0.05	90				—												Do
0.00 0.01 0.00 0.00 0.00 0.05 0.08 0.08 0.08 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00	07				—												DC
0.11 0.00 0.00 0.00 0.00 0.05 0.05 0.08 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.03 0.00	80				0.00		0.0										un
0.00 0.00 0.00 0.00 0.05 0.08 0.08 0.00 0.00	60				0.11												ne
0.00 0.00 0.00 0.01 0.08 0.08 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.04 0.01 0.04 0.04 0.04 0.04 0.04 0.06 0.07 0.08 0.08 0.09 0.00	10				0.03												nt
0.00 0.00 0.01 0.08 0.08 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.08 0.08 0.08 0.08 0.09 0.09 0.09 0.09 0.00	11				0.00		0.0										1
0.00 0.21 0.05 0.08 0.20 0.11 0.11 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.01	12				0.00		0.0										F
0.05 0.08 0.08 0.20 0.03 0.00 0.00 0.00 0.00 0.00 0.01 0.01	13				0.00		0.0										ile
0.05 0.08 0.11 0.11 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	14				0.21												d
0.08 0.20 0.11 0.03 0.00 0.00 0.00 0.01 0.01 0.0	15				0.05												10
0.20 0.01 0.00 0.00 0.00 0.00 0.01 0.01	16				0.08)/0
0.03 0.00 0.02 0.08 0.00 0.01 0.01 T T T T T 2.36	17				0.20												7/
0.00 0.00 0.02 0.08 0.01 0.01 T T T 0.00 0.00 0.00 0.00 0.0	18				0.11												20
0.00 0.02 0.08 0.00 0.01 0.11 T T 0.10 0.00 0.00 0.00	19				0.03												
0.02 0.08 0.00 0.01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20				0.00		0.0										Pa
0.08 0.00 0.01 0.11 T T T T 0.00 0.00 0.48	21				0.02												ag
0.00 0.01 0.11 T T 0.00 0.00	22				80.0		1.5										e 5
0.01 T T 0.00 0.00 2.36	23				0.00		0.0										59
0.11 T 0.00 0.48 2.36	24				0.01												of
0.00 0.048 2.36	25				0.11												8
0.00	26				_												8
0.48	27				0.00		0.0										
2.36	28				0.48												
	Sumn	nary			2.36		1.5										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations.

						j	2020	General Grand Gran				-		į	-	
		Temperature (F)				Precipitation			Evapo	Evaporation			Soil Temperature (F)	erature (F)		
	24 Ops	24 Hrs. Ending at Observation Time	¥0.	24 HC	our Amor Observa	24 Hour Amounts Ending at Observation Time	±	At Obs. Time	,			4 in. Depth			8 in. Depth	
	D y Max.	ax. Min.	_ 0 0 - > α + - 0 c	Rain, Melted Snow, Etc. (in)	н— в р	Snow, Ice Pellets, Hail (in)	т — а р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
				0.46												cv
				0.15												-0:
				⊢												14
				0.00		0.0										83
				0.07												
				0.00		0.0										Do
				0.00		0.0										oc
				60.0												un
60				0.46												ne
우				0.00		0.0										nt
																1
				0.00		0.0										F
13				Т												ile
4				0.21												d
15				_												10
16				0.00		0.0										0/0
17				0.00		0.0										7/
18				0.00		0.0										20
19				0.00		0.0										
20				0.00		0.0										Pa
21				0.00		0.0										age
22				0.24												е 6
23				0.31												60
24				0.56												of
25																8
26				0.02												8
27				0.07												
28				0.03												
29				0.01												
30				0.00		0.0										
31				0.00		0.0										
Sur	Summary			2.68		0.0										

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Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

		ì	Tem	Temperature (E)				Drecinitation	ממכי	tion	Evanoration	ration		<u> </u>	Soil Temps	Soil Temperature (E)		
			- I	יי ביי יי				. = ::			Lvapo	la ilon				בומותוב (ו)		
			24 Hrs. Ending at Observation Time	ding at on Time	¥o.	24 Ho	ur Amou Ibservat	24 Hour Amounts Ending at Observation Time	±	At Obs. Time				4 in. Depth			8 in. Depth	
- a e -	∑oc+£	O a y	Мах.	Min.	2 0 a 0 c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2018	04	10				0.00		0.0										cv
2018	90	02				0.16												-0:
2018	04	03				0.00		0.0										14
2018	04	04				60.0												83
2018	04	05				0.22												
2018	04	90				0.22												Do
2018	04	20				0.47												OC
2018	04	08				09.0					1							un
2018	04	60				0.08												ne
2018	04	10				0.05												nt
2018	04	11				0.22					_							1
2018	04	12				0.22												F
2018	04	13				0.19												ile
2018	04	14				0.61					_							ed
2018	04	15				1.78												10
2018	04	16				0.13												/0
2018	04	17				0.28					1							7/
2018	04	18				0.01												20
2018	04	19				0.02					_)
2018	90	20				0.00		0.0										Pa
2018	04	21				0.08												ıgı
2018	04	22				0.02					_							e 6
2018	04	23				0.00		0.0										61
2018	04	24				0.00		0.0										of
2018	04	25				0.00					_							8
2018	04	26				0.00		0.0			_							8
2018	04	27				0.00		0.0										
2018	04	28				0.26					_							
2018	04	29				0.15												
2018	04	30				0.01												
		Summary				5.87		0.0										
1	مامو بامواط	todt otooilogi	40 040 040 0	00000	4													

Empty, or blank, cells indicate that a data observation was not reported.

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Case Face	
### Amounts Ending at ATIME	e (F)
F Snow, Ice F	24 Hrs. Ending at At Observation Time O
	s e e r Rain, v Metted Min. a Snow, Etc. (in)
	0.01
	0.00
	0.00
	00.00
	00:00
	0.03
	0.00
	00.00
	0.04
	Τ
	0.04
	00:00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	Т
	0.02
	0.00
	0.00
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0.0 0	0.01
0.0 0.0 0.0 0.0 0.0 0.0 0.0	00.00
0.0 0.0 0.0 0.0 0.0 0.0	0.00
0.0	00:00
0.0	0.00
	0.00
	00.00

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Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

		Case 2:20-	cv	-0 :	14	83		D	oc	un	ne	nt	1	F	il€	d	10)/0	7/	20)	Pá	ıgı	e 6	3	of	8	8				
	8 in. Depth	Мах.																														
Soil Temperature (F)		Ground Cover (see *)																														
Soil Temp		Min.																														
-	4 in. Depth	Мах.																														
		Ground Cover (see *)																														
ation		Amount of Evap. (in)																														
Evaporation		24 Hour Wind Movement (mi)																														
tion	At Obs. Time	σ σ																														
	¥	ш — а о																														
Precipitation	24 Hour Amounts Ending at Observation Time	Snow, Ice Pellets, Hail (in)			0.0				0.0					0.0			0.0	0.0	0.0	0.0	0.0		0.0	0.0					0.0		0.0	
4	ur Amou Ibservati	ш— « ъ																														
	24 Hoi O	Rain, Melted Snow, Etc. (in)	0.02	0.00	0.00	0.04	0.05	0.00	0.00	0.00	0.26	0.16	0.09	0.00	0.13	Т	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.13	0.02	0.00		0.00	
	¥0	o																														
Temperature (F)	nding at ion Time	Min.																														
Ter	24 Hrs. Ending at Observation Time	Мах.																													_	
		O a >	10	02	03	04	90	90	20	80	60	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
		∑ 0c+£	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
		> v a -	2018	2018		2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018			2018		2018	2018	2018	

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

								5	2000	deliciated oil of the oed				-			-	
			Tel	Temperature (F)				Precipitation		Ī	Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	inding at ion Time	¥٥	24 Ho C	24 Hour Amounts Er Observation Tir	ints Ending at ion Time	Ħ	At Obs. Time				4 in. Depth			8 in. Depth	
> o o -	∑0c+⊏	O a y	Мах.	Min.	ე თ თ ~ > თ + - ი c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pelets, Hail (in)	п — ар	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2018	07	01				0.02												CV
2018	20	02				0.00		0.0										-0:
2018	20	03				0.00		0.0										14
2018	20	04				0.00		0.0										83
2018	20	05				0.00		0.0										
2018	20	90				0.00		0.0										Do
2018	07	07				0.00		0.0										OC
2018	20	80				0.00		0.0										un
2018	07	60				0.00		0.0										ne
2018	20	10				0.01												nt
2018	20	11				0.00												1
2018	07	12				0.00		0.0										F
2018	07	13				0.00		0.0										ile
2018	07	14																ed
2018	20	15				0.00												10
2018	20	16				0.00												/0
2018	07	17				0.00		0.0										7/
2018	07	18				0.00		0.0										20
2018	07	19				0.00		0.0										
2018	20	20				0.00		0.0										Pa
2018	20	21																ıge
2018	20	22				0.00		0.0										е 6
2018	20	23				0.00		0.0										54
2018	07	24				0.00		0.0										of
2018	20	25				0.00												8
2018	07	26				0.00		0.0										8
2018	07	27				0.00		0.0										
2018	07	28				0.00		0.0										
2018	07	29				0.00		0.0										
2018	20	30																
2018	07	31																
		Summary				0.03		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

		Case 2:20-	cv	-0	14	83		Do	OCI	un	ne	nt	1	F	ile	d	10)/0	7/	20		Pa	age	e 6	55	of	8	8					
	8 in. Depth	Max.																															
ature (F)	8	Ground Cover (see *)																															
Soil Temperature (F)		Min.																															
	4 in. Depth	Мах.																															
	7	Ground Cover (see *)																															
ation		Amount of Evap. (in)																															
Evaporation		24 Hour Wind Movement (mi)																															
	At Obs. Time	φ σ																															
	t	ш — а о																															
Precipitation	24 Hour Amounts Ending at Observation Time	Snow, Ice Pellets, Hail (in)						0.0	0.0						0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0			0.0	0.0	0.0	0.0
Ь	ır Amouı bservati	т — а р						0	0)	0	J			J	0)	0	0						0)		
	24 Hou O	Rain, Melted Snow, Etc. (in)					90.0	0.00	0.00	0.00			0.00	0.03	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00		_	0.00	0.01	0.07	0.00	0.00	0.00	000
	At																																
Temperature (F)	nding at	Min.																															
Tem	24 Hrs. Ending at Observation Time	Max.																															
		O a >	10	02	03	04	90	90	20	80	60	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	7
		∑05+E	80	80	80	80	80	80	80	80	80	80	80	80	80	80	08	80	80	08	80	80	80	80	80	80	80	80	80	80	80	80	00
		- a a -	2018	2018		2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	0740

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[&]quot;s" This data value failed one of NCDC's quality control tests.

Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

								5	0 000	Generaled on 07724/2020							-	
			Temp	Temperature (F)			4	Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	ing at Time	¥ο	24 Hou O	ır Amou bservati	24 Hour Amounts Ending at Observation Time	.	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑0c+£	O a >	Мах.	Min.	_ o o o c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	ш— « ъ	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2018	60	10				0.00		0.0										cv
2018	60	02				0.00												-0
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2018	60	23				0.03					_							66
2018	60	24				0.00		0.0										of
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2018	60	28				0.00		0.0										
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2018	60	30				0.11												
		Summary				1.57		0.0										
		1 1 1 1 1 1			-													

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

F Snow, tee Wind (m) (see ") (!		:	2) 02114020400					ופן מופח ה	dellelated oil 0772472020		a citor			(E)	(4)	
March Control Contro				<u> </u>	inperature (r		;		recipitation			Evapo	lailoii		dilla i line	eidiue (r)		T
March Marc				24 Hrs. E Observat	nding at ion Time	₹ 0.	24 Ho	ur Amot Observat	ints Ending a ion Time	_	At Obs. Time			4 in. Depth			8 in. Depth	
10 01 01 01 01 01 01 01	> o a -	∑05+E	O a >	Мах.	Min.		Rain, Melted Snow, Etc. (in)		Snow, Ice Pellets, Hail (in)		Snow, Ice Pellets, Hail, Ice on Ground (in)			Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
10 622 628	2018	10	10				0.02											cv
10 604 605 606	2018	10	02				0.36											-0
10 64 64 64 60 60 60 60 6	2018	10	03				0.04											14
10 05 05 06 07 07 07 07 07 07 07	2018	10	04				0.00		0.0									83
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10 099 100	2018	10	80				0.11					_						un
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10 12 12 12 13 10 10 10 10 10 10 10	2018	10	11				0.00		0.0									1
10 13 13 15 16 16 17 18 18 10 10 10 10 10 10	2018	10	12				0.00		0.0									F
10 144 000 0.0	2018	10	13				0.00		0.0									ile
10 15 000 0.00	2018	10	14				0.00		0.0									d
10 16 0.00 0.0	2018	10	15				0.00		0.0									10
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National Centers for Environmental Information 151 Patton Avenue

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 Page 68 88 Document 1 of 8 in. Depth Max. Ground Cover (see *) Soil Temperature (F) Ξ Ë in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.00 0.00 0.20 0.08 90.0 0.00 0.12 0.00 0.02 90.0 0.02 0.00 0.00 0.00 0.02 0.25 0.02 0.00 0.24 1.04 Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. □ a > ဗ 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 9 9 2 2 23 25 07 22 24 > 0 = + = Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ - a e -2018 2018

Empty, or blank, cells indicate that a data observation was not reported.

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^{&#}x27;Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

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			<u> </u>	iiperature (r]; 	- 	recipitation			Evapo	Idion			3011 16111	elature (r.)		T
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2018	12	10				0.18												cv
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		Summary				6.33		0.0										

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National Oceanic & Atmospheric Administration

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Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

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National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration U.S. Department of Commerce

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

151 Patton Avenue

Asheville, North Carolina 28801

National Centers for Environmental Information

A			Ten	Temperature (F)				Drecinitation		tion		i i i			Soil Temperature (E)	rature (F)	-	
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4.84	CI.	28				Т												
		Summary	,			4.84		15.0										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Observations

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Generated on 07/24/2020 Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

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Record of Climatological **Observations** National Environmental Satellite, Data, and Information Service National Oceanic & Atmospheric Administration

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

National Centers for Environmental Information

151 Patton Avenue

Asheville, North Carolina 28801

			Tem	Temperature (E)				Drecinitation	וסו מוסר י	tion	Evanoration	ration		<u>-</u>	Soil Temp	Soil Temperature (F)		
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			24 Hrs. Ending at Observation Time	ding at n Time	₹0.	24 Ho	ur Amor Observat	24 Hour Amounts Ending at Observation Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑0c+⊏	Oay	Мах.	Min.	_ o o > a + o c	Rain, Melted Snow, Etc. (in)	т — ар	Snow, Ice Pellets, Hail (in)	ц — « ъ	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	M	Ground Cover (see *)	Мах.	Case 2:20-
2019	90	01				0.00		0.0										cv
2019	90	02				0.00		0.0										-0
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2019	04	15				0.02												10
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2019	04	22				0.01												e 7
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2019	04	24				Т												of
2019	04	25				0.00		0.0										8
2019	04	26				0.00		0.0										8
2019	04	27				0.00		0.0										
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		Summary				2.95		0.0										
1	مارم بامراط	to all a section;	and other of		4.0													

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151 Patton Avenue Asheville, North Carolina 28801

Observations

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Record of Climatological

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

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			len	lemperature (F)				Precipitation			Evapo	Evaporation			Soll lemp	Soil Temperature (F)		
			24 Hrs. Ending at Observation Time	nding at on Time	¥0.	24 Ho	ur Amot Ibservat	24 Hour Amounts Ending at Observation Time	٦	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	≥੦੮+੮	O a >	Мах.	Min	ο+α<αου	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	н — в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2019	05	01				0.00												CV
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2019	05	29				0.00		0.0										
2019	05	30				0.00		0.0										
2019	05	31				0.00		0.0										
		Summary				0.95		0.0										

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National Centers for Environmental Information Record of Climatological

151 Patton Avenue Asheville, North Carolina 28801

> These data are quality controlled and may not be identical to the original observations. **Observations**

> > Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

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			leľ	lemperature (F)				Precipitation			Evaporation	ration			Soli Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	nding at on Time	¥٥	24 Ho	ur Amou bservat	24 Hour Amounts Ending at Observation Time	t t	At Obs. Time	_			4 in. Depth			8 in. Depth	
> o a -	≥0:+=	O a >	Мах.	Min.	ე ი	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	н — в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2019	90	10				0.00		0.0										cv
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2019	90	13				0.00		0.0										il€
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2019	90	15				0.00		0.0										10
2019	90	16				0.00		0.0			_							/0
2019	90	17				0.00		0.0			_							7/
2019	90	18				0.05					_							20
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2019	90	22				0.00		0.0			_							e ī
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2019	90	24				0.03												of
2019	90	25				0.01												8
2019	90	56				0.00		0.0			_							8
2019	90	27				90.0					_							
2019	90	28				0.02												
2019	90	29				0.00		0.0										
2019	90	30				0.00		0.0			_							
		Summary				0.74		0.0										
L	-11	the state of the state of	The state of the s		1													

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Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

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			24 Hrs. Ending at Observation Time	ion Time	₹0.	24 Ho	ur Amou Jbservat	24 Hour Amounts Ending at Observation Time	_	At Obs. Time				4 in. Depth			8 in. Depth	
- v v -	∑oc≁c	O a >	Мах.	Min.	ο ω + α < - ο c	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	п – ар	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2019	20	10				0.00		0.0										cv
2019	20	02				0.00												-0
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2019	20	22				0.00		0.0										? 7
2019	20	23				0.00		0.0										'6
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2019	07	25				0.00		0.0										8
2019	07	26				0.00		0.0										3
2019	20	27				0.00		0.0										
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		Summary				1.16		0.0	\dashv									

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

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			<u>ש</u>	iiperature (r			-	recipitation			Evapo				dilla line	erature (r.)		
			24 Hrs. Ending at Observation Time	nding at on Time	¥o.	24 HG	our Amou Observat	24 Hour Amounts Ending at Observation Time	_	At Obs. Time				4 in. Depth			8 in. Depth	
≻ v a -	≥0c+c	O a >	Мах.	Min.	ο+α<ο	Rain, Melted Snow, Etc. (in)	ц — « Б	Snow, Ice Pellets, Hail (in)	п – ар	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2019	08	01																cv
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2019	80	80				0.00		0.0										un
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2019	08	18				0.00		0.0										20
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2019	08	31				0.00		0.0										
		Summary				0.90		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

National Centers for Environmental Information Asheville, North Carolina 28801 Record of Climatological **Observations**

151 Patton Avenue

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

	F	ĺ							101			T II O	(1)	-	
	lemperature (F)				Precipitation			Evapo	Evaporation			Soll lemperature (F)	erature (F)		
	24 Hrs. Ending at Observation Time	¥0	24 Ho	ur Amou Observa	24 Hour Amounts Ending at Observation Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
	Max. Min.		Rain, Melted Snow, Etc. (in)	н— в р	Snow, Ice Pellets, Hail (in)	н — с р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
_			0.02												cv
			00.00		0.0										-0
			00.00		0.0										14
			00.00												83
			00.00		0.0										
			00.00		0.0										Do
ı			00.00		0.0										С
1			99.0												un
			0.10												ne
			0:30												nt
			0.01												1
l			00.00		0.0										F
			0.20												ile
			0.00		0.0										d
			0.34												10
			0.18)/0
			0.03												7/
			0.50												20
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			0.00		0.0										age
			0.03												e 7
			0.23												78
			0.12												of
			0.01												8
			0.03												8
			0.13												
			0.08												
			0.09												
			0.02												
Summary			3.11		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Temp	Temperature (F)				Precipitation			Evaporation	ration			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	ding at n Time		24 Ho	ur Amou Observat	24 Hour Amounts Ending at Observation Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑05+E	O a >	Мах.	Min.	ი ი ი - > თ + - 0 ⊏	Rain, Melted Snow, Etc. (in)	т — а р	Snow, Ice Pellets, Hail (in)	ш — а б	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2019	10	10				0.00		0.0										cv
2019	10	02				0.00		0.0										-0:
2019	10	03				0.01												14
2019	10	04				0.08												83
2019	10	05				0.01												
2019	10	90				0.00		0.0										Do
2019	10	07				0.00		0.0										OCI
2019	10	80				0.02												un
2019	10	60				0.41												ne
2019	10	10				0.00		0.0										nt
2019	10	11				0.00		0.0										1
2019	10	12				0.00		0.0										F
2019	10	13				Т												ile
2019	10	14				0.00		0.0										d
2019	10	15				0.00		0.0										10
2019	10	16				0.10)/0
2019	10	17				0.34												7/
2019	10	18				0.18												20
2019	10	19				1.26												
2019	10	20				0.21												Pa
2019	10	21				0.16												ıge
2019	10	22				0:30												9 7
2019	10	23				0.03												79
2019	10	24				0.00		0.0										of
2019	10	25				0.00		0.0										8
2019	10	26				0.23												8
2019	10	27				0.00		0.0										
2019	10	28				0.00		0.0										
2019	10	29				00.00		0.0										
2019	10	30				0.00												
2019	10	31				0.00												
		Summary				3.34		0.0		_								
Empty or b	i allon Vueld to	todt otonibat	sew aciteraged etch e tedt etcoibai ellec	ton sew noite	t roportod													

^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

[&]quot;s" This data value failed one of NCDC's quality control tests.

[&]quot;T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

151 Patton Avenue Asheville, North Carolina 28801

> be identical to the original observations. Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

These data are quality controlled and may not **Observations**

Record of Climatological

			Case 2:20-	cv	-0:	14	83		Do	OC	un	ne	nt	1	F	il€	d	10)/0	7/	20)	Pa	ıg	e 8	80	of	8	8					
		۲	\overline{\over																															
		8 in. Depth	Мах.																															
erature (F)	ciatale (i)		Ground Cover (see *)																															
Soil Temperature (F)	100		Min.																															
		4 in. Depth	Мах.																															
			Ground Cover (see *)																															
iion —			Amount of Evap. (in)																															
Fvanoration	LVADOIS		24 Hour Wind / Movement (mi)																															
tion		At Obs. Time	Snow, Ice Pellets, Hail, Ice on Ground (in)																															
erated o		+	т — в р																															
Precinitation	i comitation	24 Hour Amounts Ending at Observation Time	Snow, Ice Pellets, Hail (in)	0.0		0.0	0.0	0.0	0.0	0.0	0.0						0.0							0.0	0.0	0.0					0.0			0.0
^		ır Amou bservati	т – в р																					(J									
		24 Hou	Rain, Metted Snow, Etc. (in)	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	0.01	0.23	0.04	0.00	0.19	0.01	0.04	0.10	0.57	0.05	0.00	0.00	0.00	0.04	0.10	0.13	0.02	0.00			1.78
		₹ 0.	ο ω υ - γ σ γ - ο c))		(_									
Temperature (E)	וייייייייייייייייייייייייייייייייייייי	nding at on Time	Min.																															
Ten	5	24 Hrs. Ending at Observation Time	Мах.																															
			Oay	10	02	03	90	90	90	20	80	60	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Summary
			∑oc+t	-	1	-	_	1	1	-	1	1	1	1	1	1	1	1	-	-	-	1	-	_	_	-	-	-	1	1	-	1	1	
			- a a -	2019	2019	2019 11	2019 11	2019 11	2019	2019	2019 11	2019	2019	2019 111	2019	2019	2019	2019	2019 11	2019 11	2019 11	2019	2019	2019 111	2019 111	2019 11	2019 11	2019	2019 11	2019	2019 11	2019	2019	

Empty, or blank, cells indicate that a data observation was not reported.

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"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Filed 10/07/20 Page 81 88 Document 1 of 8 in. Depth Max. Ground Cover (see *) Soil Temperature (F) Ξ Ë in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.15 0.00 0.02 0.02 0.00 0.27 0.14 0.00 0.15 0.45 0.02 0.55 0.14 0.01 0.00 0.41 2.35 2.25 0.28 0.37 0.03 0.00 0.03 0.00 0.01 0.05 0.01 0.01 0.04 7.81 \vdash ta < r e s Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 9 8 2 8 23 24 25 56 28 07 27 29 30 5 31 ≥ o = + -4 12 42 12 12 7 12 4 12 7 12 4 7 42 7 72 7 12 12 42 12 12 12 7 7 12 7 12 - a e -2019 2019

Empty, or blank, cells indicate that a data observation was not reported.

Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

's" This data value failed one of NCDC's quality control tests.

151 Patton Avenue National Centers for Environmental Information

Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations.

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Generated on 07/24/2020

			:					:	מומומת סו	מפוופו מונו טייז באיבטבט		;				[
			Tem	Temperature (F)				Precipitation			Evaporation	ration			Soil Temp	Soil Temperature (F)		
			24 Hrs. Ending at Observation Time	ding at n Time	¥0	24 Ho	ur Amot bserva	24 Hour Amounts Ending at Observation Time	¥	At Obs. Time				4 in. Depth			8 in. Depth	
> v ∞ -	≥0c+£	Οαγ	Мах.	Min.	o o a o c	Rain, Melted Snow, Etc. (in)	д – в	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2020	10	01				0.19												cv
2020	10	02				⊢												-0
2020		03				0.17												14
2020	10	04				0.27												83
2020	10	90				0.17												
2020	10	90				0.29												Do
2020	01	07				0.56					1							OC
2020	01	08				0.05					1							un
2020	01	00				60.0												ne
2020	01	10				0.13												nt
2020	10	11				0.56												1
2020	10	12				0.26												F
2020	01	13				0.10		0.4										ile
2020	01	14																d
2020	10	15				0.02												10
2020	01	16				0.02)/0
2020	01	17				T					1							7/
2020	01	18				0.50												20
2020	01	19				0.03)
2020	10	20				90.0												Pa
2020	10	21				0.24												ıg
2020	01	22				0.79												e 8
2020	10	23				0.43												32
2020	01	24				0.80												of
2020	01	25				0.50					1							8
2020	10	26				0.30												8
2020	01	27				60.0												
2020	01	28				1.02												
2020	01	29				90.0												
2020	01	30				0.24												
2020	01	31				0.27												
		Summary				8.21		0.4										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests.

Record of Climatological National Oceanic & Atmospheric Administration U.S. Department of Commerce

National Environmental Satellite, Data, and Information Service Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W Station: **SEATTLE 5.8 SSE, WA US US1WAKG0200**

Observations
These data are quality controlled and may not be identical to the original observations.

a are quality controlled and may not ideal to the original observations.

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

151 Patton Avenue

Asheville, North Carolina 28801

National Centers for Environmental Information

Case 2:20-cv-01483 Doc Jiment 1 Filled 10/C7/20 Page 83 of 88 Jiment Fabrica (mi)	Temperature (F)	Temperat	z	ure (F)			Precipitation	tion	Evaporation	ation			Soil Temperature (F)	erature (F)		
F Pallets, Wind Wind an on Ground (see*) Max. Min. Ground (see*) Max. Min. Ground (see*) Max.		O At	O At	24 Hour Amounts E Observation T	our Amounts E Observation T	ion T	inding a	At Obs. Time				4 in. Depth			8 in. Depth	
cv-01.483 Document 1 Filed 10/07/20 Page \$3 of 88	M S Snow, Ice P Snow, Ice Pellets, A Max. Min. a Snow, Etc. a Hail (in) i (in) g Hail (in) n	S e e e r Rain, F v Melted I a Snow, Etc. a i (in) g o o	S	ш — в р	ш — в р	Snow Pelle Hail	lce (in)	Snow, Ice Pellets, Hail, Ice n Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
-01483 Document 1 Filed 10/07/20 Page 83 of 88	01	1.44	1.44	1.44												cv
1483 Document 1 Filed 10/07/20 Page 83 of 88	0.01	0.01	0.01	0.01												-0:
83 Document 1 Filed 10/07/20 Page 83 of 88	0.09	0.09	0.09	0.09												14
Document 1 Filed 10/07/20 Page 83 of 88	0.01	0.01	0.01	0.01												83
Document 1 Filed 10/07/20 Page 83 of 88	05 0.49	0.49	0.49	0.49												
ocument 1 Filed 10/07/20 Page 83 of 88	06 0.84	0.84	0.84	0.84												Do
ument 1 Filed 10/07/20 Page 83 of 88	07 0.53	0.53	0.53	0.53												OC
nent 1 Filed 10/C7/20 Page 83 of 88	08 0.28	0.28	0.28	0.28												un
nt 1 Filed 10/07/20 Page 83 of 88	0.02	0.02	0.02	0.02												ne
1 Filed 10/07/20 Page 83 of 88	10 0.00 0.00				0.0	0.0										nt
Filed 10/07/20 Page 83 of 88	11 0.00 0.00				0.0	0.0										1
Filed 10/07/20 Page 83 of 88	12 0.18	0.18	0.18	0.18												F
ed 10/07/20 Page 83 of 88	13 0.01	0.01	0.01	0.01												ile
10/07/20 Page 83 of 88	14 0.05	0.05	0.05	0.05												d
0/07/20 Page 83 of 88	15 0.10	0.10	0.10	0.10												10
7/20 Page 83 of 88	16 0.29	0.29	0.29	0.29)/0
20 Page 83 of 88	17 0.01	0.01	0.01	0.01												7/
Page 83 of 88	18 0.00 0.00				0.0	0.0										20
Page 83 of 88	19															
age 83 of 88	20															Pa
e 83 of 88	21 0.00	00:00	0.00	0.00												ıg
33 of 88	22 0.00 0.00				0.0	0.0										e 8
of 88	23 0.19	0.19	0.19	0.19												83
88	24 0.01	0.01	0.01	0.01												of
8	25 0.00 0.00				0.0	0.0										8
	26 0.02	0.02	0.02	0.02												8
	27 0.01	0.01	0.01	0.01												
	28 0.00 0.00				0.0	0.0										
	29 0.16	0.16	0.16	0.16												
	Summary 0.0	4.74			0.0	0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units. "A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Case 2:20-cv-01483 Document 1 Filed 10/07/20 Page 88 of 8 in. Depth Max. Soil Temperature (F) Ground Cover (see *) Ξ Ë in. Depth Мах. Ground Cover (see *) Amount of Evap. (in) Evaporation 24 Hour Wind Movement (mi) Snow, Ice Pellets, Hail, Ice on Ground (in) At Obs. Time **ш** — в р 24 Hour Amounts Ending at Observation Time Precipitation Snow, Ice Pellets, Hail (in) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **д** — в р Rain, Melted Snow, Etc. (in) 0.10 0.00 90.0 0.03 0.60 0.03 0.00 0.03 0.02 0.09 0.29 0.00 0.00 0.00 0.00 0.00 0.00 0.00 90.0 0.13 0.05 0.03 0.03 0.68 0.40 0.09 0.24 2.98 0.01 0.01 ta < r e s b Temperature (F) 24 Hrs. Ending at Observation Time Ξ ï Station: SEATTLE 5.8 SSE, WA US US1WAKG0200 Мах. Summary □ a > 93 04 05 90 88 60 9 Ξ 12 13 4 15 16 17 8 5 2 2 2 23 24 25 56 28 07 27 29 30 31 ≥ o = + -8 93 93 03 03 8 03 83 03 03 83 03 03 03 03 83 03 03 03 03 03 03 8 03 03 03 ဗ - a e -2020 2020

Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

^{&#}x27;s" This data value failed one of NCDC's quality control tests.

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National Centers for Environmental Information 151 Patton Avenue

Asheville, North Carolina 28801

Record of Climatological **Observations**

These data are quality controlled and may not be identical to the original observations. Generated on 07/24/2020

Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Tel	Temperature (F)			_ 	Precipitation			Evaporation	ation			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	inding at ion Time	,	24 Ho	24 Hour Amounts Er Observation Tir	nts Ending at ion Time	+	At Obs. Time				4 in. Depth			8 in. Depth	
> w a -	≥0c+c	Oa>	Мах.	Min.	ი ა ი - > a o c	Rain, Melted Snow, Etc. (in)	т – а р	Snow, Ice Pellets, Hail (in)	п — ар	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2020	04	10				0.05												cv
2020	90	02				0.04												-0
2020	94	03				—												14
2020	04	04				T												83
2020	04	05				0.00		0.0										
2020	94	90				0.00		0.0										Do
2020	04	07				0.00		0.0										DC
2020	04	80				0.00		0.0										un
2020	04	60				0.00		0.0										ne
2020	04	10				0.00		0.0										nt
2020	94	1				0.00		0.0										1
2020	94	12				0.00		0.0										F
2020	94	13				0.00		0.0										ile
2020	94	14				0.00		0.0										d
2020	04	15				0.00		0.0				_						10
2020	04	16				0.00		0.0										/0
2020	94	17				0.00		0.0				_						7/
2020	94	18				⊢												20
2020	94	19				0.04						_						
2020	04	20				0.00		0.0										Pa
2020	04	21				0.00		0.0										ıge
2020	04	22				0.02												9 9
2020	90	23				0.76												85
2020	94	24				0.11												of
2020	04	25				0.17												8
2020	94	26				0.25						_						8
2020	04	27				0.22												
2020	04	28				0.04												
2020	04	29				0.00		0.0										
2020	94	30				0.03												
		Summary				1.73		0.0										

^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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151 Patton Avenue Asheville, North Carolina 28801

Record of Climatological **Observations**

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Station: SEATTLE 5.8 SSE, WA US US1WAKG0200

Generated on 07/24/2020

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			:	0070071				5 :	ופומופת ר	מפוופומופח חוו מיועלאיבטבט		;		.		į		
			ē	lemperature (F)				Precipitation			Evaporation	ration			Soll lemp	Soil Temperature (F)		
			24 Hrs. Ending at Observation Time	inding at ion Time	¥0.	24 Hc	Observa	24 Hour Amounts Ending at Observation Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
- v a r	∑0c+⊏	O a >	Мах.	Min.	ი ა ი - > ი 0 ⊏	Rain, Melted Snow, Etc. (in)	т — в р	Snow, Ice Pellets, Hail (in)	н – в р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2020	05	10				⊢												cv
2020	05	02				60.0												-0
2020	05	03				0.21												14
2020	05	04				0.00		0.0										83
2020	05	05				0.00		0.0										
2020	05	90				1												Do
2020	90	20				Т												OC
2020	05	80				0.00		0.0										un
2020	05	60				0.00		0.0										ne
2020	05	10				0.00		0.0										nt
2020	05	11				0.00												1
2020	05	12				0.04												F
2020	05	13				0.05												ile
2020	05	14				0.08												ed
2020	05	15				0.07												10
2020	05	16				0.02)/0
2020	05	17				0.65												7/
2020	05	18				0.02												20
2020	05	19				0.00		0.0)
2020	05	20				0.00		0.0										Pa
2020	05	21				0.22												ıgı
2020	05	22				0.21												e 8
2020	05	23				0.17												36
2020	05	24				0.00		0.0										of
2020	05	25				0.04												8
2020	05	26				0.08												8
2020	05	27				0.02												
2020	05	28				0.00		0.0										
2020	05	29				0.00		0.0										
2020	05	30				0.00		0.0										
2020	05	31				1.19												
		Summary				3.16		0.0	L									

^{*}Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

[&]quot;s" This data value failed one of NCDC's quality control tests.

[&]quot;T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

151 Patton Avenue Asheville, North Carolina 28801

Generated on 07/24/2020

These data are quality controlled and may not be identical to the original observations. **Observations**

> Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

U.S. Department of Commerce

Record of Climatological

Station: St	EATTLE 5.8	8 SSE, WA L	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	<u> </u>			Generated on 07/24/2020	rated on	Generated on 07/24/2020	yations.	Observa	Observation Time Temperature: Unknown Observation Time Precipitation: Unknown	mperature: U.	nknown Obs	servation Tim	e Precipitatior	ו: Unknown
			Tei	Temperature (F)	<u>-</u>			Precipitation			Evaporation	ration			Soil Temp	Soil Temperature (F)		
			24 Hrs. E Observat	24 Hrs. Ending at Observation Time	₩o	24 Ho C	ur Amou Ibservat	24 Hour Amounts Ending at Observation Time	4.	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	∑05+€	C a Y	Мах.	Min.	o + a < - e o o	Rain, Melted Snow, Etc. (in)	н— в р	Snow, Ice Pellets, Hail (in)	т- « р	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20
2020	90	01			=	0.02												-cv
2020	90	02				0.00		0.0										·-O
2020	90	03				_												14
2020	90	04				0.00		0.0										83
2020	90	05				0.00		0.0										
2020	90	90				0.00		0.0										Do
2020	90	20				0.04												ЭС
2020	90	80				0.02												un
2020	90	60				0.11												ne
2020	90	10				0.20												nt
2020	90	11				0.02												1
2020	90	12				0.14												F
2020	90	13				0.26												ile
2020	90	14				0.01												d
2020	90	15				0.07												10
2020	90	16				0.12)/0
2020	90	17				0.00		0.0										7/
2020	90	18				0.00		0.0										20
2020	90	19				0.00		0.0										
2020	90	20				0.01												Pa
2020	90	21				0.03												age
2020	90	22				0.00		0.0										e 8
2020	90	23				0.00		0.0										37
2020	90	24																of
2020	90	25				0.00		0.0										8
2020	90	26				0.00		0.0										8
2020	90	27				Т												
2020	90	28				0.61												
2020	90	29				0.01												
2020	90	30				0.03												
		Summary				1.70		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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Current Location: Elev: 197 ft. Lat: 47.5440° N Lon: -122.3038° W National Environmental Satellite, Data, and Information Service

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Station: S	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	Station: SEATTLE 5.8 SSE, WA US US1WAKG0200	S US1WAKG	10200				Genera	Generated on 07/24/2020	7/24/2020	Generated on 07/24/2020	Observe	tion Time Te	Observation Time Temperature: Unknown Observation Time Precipitation: Unknown	nknown Obs	servation Tim	e Precipitatior	า: Unknown
			Ten	Temperature (F)			-	Precipitation	-		Evaporation	ation			Soil Temperature (F)	erature (F)		
			24 Hrs. Ending at Observation Time	nding at on Time	φo	24 Hoi O	ur Amot bservat	24 Hour Amounts Ending at Observation Time	∢`	At Obs. Time				4 in. Depth			8 in. Depth	
> o a -	≥0c+c	Οαγ	Мах.	Min.	o o + a < o c	Rain, Melted Snow, Etc. (in)	т — в р	ψ	S S S S S S S S S S S S S S S S S S S	Snow, Ice Pellets, I Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Мах.	Case 2:20-
2020	20	10				0.01												cv
2020	20	02				_												-0
2020	07	03				0.00		0.0										14
2020	20	04				1												83
2020	20	92				0.00		0.0										
2020	20	90				0.00		0.0										Do
2020	20	07				0.00		0.0										OC
2020	20	80				0.02												un
2020	20	60				0.01												ne
2020	20	10				0.02												nt
2020	20	11				0.00		0.0										1
2020	20	12				0.01												F
2020	20	13				0.04												ïl€
2020	20	14				0.00		0.0										d
2020	07	15				0.00		0.0										10
2020	20	16				0.00		0.0)/0
2020	20	17				0.13												7/
2020	20	18				0.03												20
2020	20	19				0.00		0.0)
2020	07	20				0.00		0.0										Pa
2020	07	21				0.00		0.0										ıgı
2020	07	22				0.01												е 8
2020	20	23																38
2020	20	24																of
2020	20	25																8
2020	20	26																8
2020	07	27																
2020	07	28																
2020	07	29																
2020	07	30																
2020	07	31																
		Summary				0.28		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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